

**SANTIAGO GEOLOGIC HAZARD ABATEMENT DISTRICT
REGULAR MEETING OF THE BOARD OF DIRECTORS
June 9, 2020 AGENDA – ZOOM MEETING**

By Computer:

<https://us02web.zoom.us/j/87438539196?pwd=Z1hxOHFpTUhHS2Y5aE9aWHdGWZWZWdz09>

By Phone: 1 (669) 900-9128 Meeting ID: 874 3853 9196 Password: 776224

- Agendas and staff reports are posted on the GHAD's internet website (www.santiagohad.org)
- A complete packet of information containing staff reports and exhibits related to each item is available for public review at least 72 hours prior to a Santiago GHAD Board meeting, or in the event that it is delivered to Boardmembers less than 72 hours prior to a GHAD Board meeting, as soon as it is delivered.

REGULAR MEETING 6:00 P.M.

1. Call to Order and Roll Call: Boardmembers:
Hari Lal, Kaye Dabbs-Moyer, Rick Moyer, Craig Schill, and Marc Schwering
 - A. Confirmation of Agenda Posting
2. Public Forum: Members of the Public May Comment (3 minutes per speaker)
At this time, the public is permitted to address the GHAD Board on non-agendized items. In accordance with State Law, no action or discussion may take place on an item not appearing on the posted agenda. The Board may respond to statements made or questions asked, or may request staff to report back at a future meeting concerning the matter. Please see "How to Submit Public Comments" on the GHAD's website www.santiagohad.org.
3. Approval of Minutes:
 - A. April 21, 2020 Regular Meeting
4. Reports:
 - A. Chair and Boardmembers
 - B. Contract Review Subcommittee
 - C. Plan Review Subcommittee
 - D. Public Relations Subcommittee
 - E. Charles King Company (Merritt King to participate)
 1. Status of Vertical Wells
 2. Repairs and Well Maintenance
 - F. ENGEO Incorporated
 1. Groundwater Level and Extraction: Monitoring and Evaluation
 2. Coordination and Documentation (Website and G.I.S.)
5. Financial Review
 - A. Acceptance of Financial Statements
 1. April 2020
6. Unfinished Business:
 - A. Subject: Data Interpretation (Continued from January 30, 2020 meeting)
From: Boardmember Lal
 - B. Subject: Well Maintenance and Clean Up (Continued from January 30, 2020 meeting)
From: Boardmember Lal
7. New Business:
 - A. Subject: Discussion of Statement of Qualifications Received for Santiago GHAD Manager
From GHAD Manager and Contract Review Subcommittee

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- B. Subject: Discussion of Statement of Qualifications Received Santiago GHAD Technical Monitoring Services
From GHAD Manager and Contract Review Subcommittee
- C. Subject: Discussion of Statement of Qualifications Received Santiago GHAD Well Maintenance Services
From: GHAD Manager and Contract Review Subcommittee
- D. Subject: Discussion of Statement of Qualifications Received Santiago GHAD Clerk Services
From: GHAD Manager
- E. Approval of Contract for GHAD Management – Resolution 2020/01
APPROVE and AUTHORIZE the Chair, or designee, to execute a Professional Services Agreement with _____, for GHAD Management for the period July 1, 2020, through June 30, 2021.
- F. Approval of Contract for Dewatering Monitoring and Consultation – Resolution 2020/02
APPROVE and AUTHORIZE the Chair, or designee, to execute a Professional Services Agreement with _____, for the period July 1, 2020, through June 30, 2021.
- G. Approval of Contract for GHAD Clerk – Resolution 2020/03
APPROVE and AUTHORIZE the Chair, or designee, to execute a Professional Services Agreement with _____, for GHAD Clerk services for the period July 1, 2020, through June 30, 2021.
- H. Approval of Contract for Maintenance of Existing Vertical Production Wells – Resolution 2020/04
APPROVE and AUTHORIZE the Chair, or designee, to execute a Professional Services Agreement with _____, to maintain existing wells for the period July 1, 2020, through June 30, 2021.
- I. Approval of an Agreement for GHAD Treasurer Services – Resolution 2020/05
APPROVE and AUTHORIZE the Chair, or designee, to execute an Agreement with GHAD Treasurer, Inc., for GHAD Management for the period July 1, 2020, through June 30, 2021 in an amount not to exceed \$5,000.
- J. Resolution to Adopt the GHAD Budget for the 2020/21 Fiscal Year – Resolution 2020/06
APPROVE the proposed annual budget for the period July 1, 2020, through June 30, 2021
- K. Subject: Discussion of Maintenance Committee Formation
From GHAD Manager
- L. Subject: Discussion of Proportional Assessment and Engineer's Report Preparation
From Boardmember Schill
- M. Subject: City Outreach Update and Next Steps
From Boardmember Schill
- N. Subject: Public Outreach Proposal Discussion
From GHAD Manager

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- O. Subject: Conflict of Interest Policy Update
From GHAD Manager
- P. Subject: Notification of Homeowners within the Santiago GHAD
From GHAD Manager
- 8. GHAD Manager's Report
 - A. November 3, 2020 Election Update – Santiago GHAD Board of Directors Candidacy
Filing Period, July 13, 2020 through August 7, 2020 for two
4-year term positions
- 9. Board Comments and Upcoming Topics of Discussion
 - A. Directors' Announcements
 - B. Set Date for Next Board Meeting
- 10. Adjournment

SANTIAGO GEOLOGIC HAZARD ABATEMENT DISTRICT
MEETING OF THE BOARD OF DIRECTORS
APRIL 21, 2020

The Regular Meeting of the Board of Directors of the Santiago Geologic Hazard Abatement District (SGHAD) was held on Tuesday, April 21, 2020, via Zoom teleconference in compliance with the Governor's shelter-in-place and social distancing directives due to the Covid-19 pandemic. The Meeting was called to order at 6:05 p.m. by the Santiago GHAD Chair, Marc Schwering.

CALL TO
ORDER

Directors Present: Kaye Dabbs-Moyer
Rick Moyer
Craig Schill
Marc Schwering

Directors Absent: Hari Lal

Representing Cardinal: Karen Holthe, Santiago GHAD Clerk

Representing ENGEO: Uri Eliahu
Emma Griffie
Eric Harrell, Santiago GHAD Manager
Matt Swanson
Haley Trindle

Others Present: Ilene Corbett
Dave Fernandez
James Guziak
Bridget Holl
Marie Hyepock
Merritt King, Charles King Company

It was noted that several other members of the public were present during the Zoom Meeting and opted not to identify themselves.

ALSO PRESENT

It was noted that the Board had met in closed session prior to the Regular Meeting to discuss a possible legal matter with counsel.

CLOSED
SESSION

It was confirmed that the Regular Meeting agenda had been posted at the Serrano location on Williams Circle on the first lamp post beyond the stop sign at Serrano and Williams Circle, as well as on the SGHAD website, more than 72 hours prior to the Meeting, in accordance with the Brown Act requirements.

AGENDA
POSTING

As there were no members of the public who wished to address the Board on non-agenda items, the Public Forum was opened and then closed.

PUBLIC FORUM

The Directors reviewed the Minutes of the January Board Meeting. On Motion duly made, seconded, and unanimously carried, the Minutes of the January 30, 2020 Regular Board Meeting were approved as written.

APPROVAL OF
REG. MINUTES

Director Moyer reported for the Plan Review Sub-Committee that they had been reviewing the renovations to a lot which was at the epicenter of the 1993 landslide and had observed questionable grading of the slope. The matter was immediately reported to the City of Anaheim, the unapproved grading was halted, and the owner was advised to resubmit plans which would not destabilize the slope.

PLAN REVIEW
SUB-CMTE.
REPORT

No other announcements or reports were presented by the Chair or Board Members.

REPORTS

Merritt King from Charles King Company was present to report that monitoring and maintenance of the vertical dewatering wells was ongoing under their contract with the SGHAD and that all pumps were operating within normal water levels.

CKC VENDOR
REPORT

Mr. King reported that a hose leak had been identified at dewatering well DW-36 and in pulling up the pump, it had become lodged within the well and the crew was unable to pull the pump out. As DW-36 was a high-producing well, a Motion was duly made, seconded, and unanimously carried to authorize ENGEO to approve the cost of any repair expenditure over what was budgeted in the event the well became inoperable, with the stipulation that the cost did not exceed \$5,000.00. Director Schwering requested that he be contacted when the crew was working on the equipment so that he could observe.

DW-36
PUMP
PROBLEM

Mr. King further reported that two electrical pedestals at Georgetown and Avenida de Santiago had rusted and were damaged beyond repair, requiring replacement, and Mr. King stated he was researching more cost-effective alternatives than stainless steel. A Motion was duly made, seconded, and unanimously carried to authorize Directors Dabbs-Moyer and Schill to review the replacement proposals upon receipt and provide the vendor with the necessary approvals to proceed as necessary.

ELECTRIC
PEDESTALS

ENGEO was requested to add the formation of a Maintenance Committee to the next Agenda to address matters requiring attention between the Board's scheduled Meetings.

MAINT. CMTE.
FORMATION

Matt Swanson of ENGEO reported that groundwater monitoring had been conducted as contracted and presented the Annual Monitoring Report. Mr. Swanson reported that quarterly measurements had been taken on all of the vertical observation wells and standpipe piezometers (42) and the water levels were consistent with historical levels. Mr. Swanson reported that two inclinometer surveys had also taken place with the exception of two that are damaged. Mr. Swanson noted that only SI-4 has historical inclinometer data, which is used to track soil movement. Mr. Swanson noted that no measurable soil movement was evident. It was further reported that semi-annual inspection and monitoring of groundwater flow from horizontal drains (87) had taken place in both March and October of 2019 as contracted, noting that only five of the drains were flowing, indicating that the remaining drains were either not flowing or were not located. Mr. Swanson continued that a review had been conducted of the well logs for the 38 dewatering wells for the year and that the system was performing well, pumping approximately 14.6 million gallons of water in 2019.

ENGEO
VENDOR
REPORT

Mr. Swanson reported that ENGEO had provided consultation services for three “on-call” events during the year. One event was a street seepage on Smokewood Circle, which was determined to not have the potential to affect the landslide. A second event was on Via El Estribo and was a shallow debris flow on the rear slope of a property which was superficial and unrelated to the landslide, and a third was on Avenida de Santiago, a manhole seepage which was resolved by hydro-jetting the storm drain to clear the blockage.

ON-CALL
CONSULT.
EVENTS

Mr. Swanson discussed the pilot program to address the horizontal and observation well and drain maintenance and repairs and reported that four of the vertical wells had been camera-inspected and hydro-jetted with various results. Of the four, three were obstructed and two of the three obstructed wells were able to be cleared. For the horizontal wells, blockages were observed in all eight wells that had been selected for the pilot program, and hydro-jetting was attempted on H-38. The attempt was considered unsuccessful after eight hours and total clearing of the line was not reached, so further hydro-jetting on the other wells was not attempted.

WELL
CLEANING
PILOT PGM.

Mr. Swanson completed his presentation by stating that a complete copy of the Annual Report had been posted on the SGHAD website for public access.

FULL REPORT
ONLINE

A Motion was duly made, seconded, and unanimously carried to approve the January, February, and March 2020 Financial Statements, subject to audit.

FINANCIALS
APPROVED

The Directors discussed the Request for Proposals (RFPs) for SGHAD Manager, SGHAD Technical Monitoring Services, SGHAD Well Maintenance, and SGHAD Clerk Services. It was suggested that the term of contracts be extended for a period of three years, with the stipulation that each contract include an appropriate termination clause. A Motion was duly made, seconded, and unanimously carried to direct ENGEO to finalize the RFPs and circulate them to qualified contractors for review at the next Meeting, as it was noted that all current vendor contracts expired June 30, 2020.

RFPS FOR
CONTRACTS

As Director Lal was not in attendance, discussion on the Data Interpretation and Well Maintenance and Clean Up items (Item Nos. 6E and 6F.) was continued until the next scheduled Board of Directors Meeting.

AGENDA
ITEMS
TABLED

The discussion regarding the matter of notification of all property owners within the SGHAD by County or City officials was tabled to the next agenda.

OFFICIAL
NOTIFICATION

There was discussion regarding the timeline for a possible SGHAD assessment and it was generally agreed that without a better understanding of the SGHAD by the membership, another assessment vote would likely fail. Upon discussion, a Motion was duly made, seconded, and carried to direct ENGEO to obtain a proposal for a communication consultant or expert to develop a plan to educate the membership regarding the purpose and value of the SGHAD. Director Schill was opposed.

MEMBER
EDUCATION

Eric Harrell provided an update on the recent outreach to the City of Anaheim, and

that a meeting had been held with City of Anaheim Council Member Trevor O'Neil and his aide, Justin Glover to discuss the current situation and the financial condition of the SGHAD. Mr. Harrell reported that the Council Member had promised to review the matter further and respond with feedback on the issue and it was reported that the follow up communication from Mr. O'Neil had not been made as promised, although it was possible that the recent challenges due to the Covid-19 pandemic had delayed the matter.

CITY
OUTREACH

Mr. Harrell provided the Board with a report on vertical dewatering wells 23 and 25 as requested, stating that the wells had been drilled, monitored and maintained by the SGHAD. Mr. Harrell continued that to determine the cost of continuing maintenance on those two wells specifically would simply be a percentage of the total cost of well maintenance and monitoring for all 38 wells, which was approximately five percent, and estimated at \$5,000.00 per year.

WELLS
23 AND 25

Mr. Harrell reported on continuing discussions with City of Anaheim staff regarding the Plan Review process, stating that the matter was still under discussion and questions had been posed to City staff for which responses had not yet been received. Mr. Harrell stated that further review was required.

CITY PLAN
REVIEW
PROCESS

Mr. Harrell reported that the SGHAD had received a notice that it was a requirement to adopt a Conflict of Interest Policy and requested Board direction as to whether they would like ENGEO to draft such a policy for review and adoption. Director Moyer reported that according to correspondence he had received, the California Fair Political Practices Commission (FPPC) had directed the City of Anaheim to draft the policy for the SGHAD. No action was required at this time.

FPPC CONFLICT
OF INTEREST
POLICY

Mr. Harrell presented the GHAD Manager's report, reminding all present that the Board elections were coming up on November 3, 2020 and that two seats (Dabbs-Moyer and Schill) were open on the Board. Mr. Harrell stated the schedule for submitting candidacy paperwork was announced to be July 13, 2020 through August 7, 2020, and that there was no cost to apply for candidacy to run for the Board.

GHAD
MANAGER
REPORT

The Directors discussed the date for the next Meeting. It was noted that due to the expiration of vendor contracts on June 30, 2020, the next Meeting would need to be held during the first two weeks of June. ENGEO and the SGHAD Clerk were requested to make the appropriate arrangements for a June Meeting.

NEXT
MEETING

There was one comment from the public, inquiring where the results could be found from the membership survey that had been recently taken. Haley Trindle responded that the results could be found on the front page of the SGHAD website at www.santiagohad.org.

PUBLIC
COMMENT

There being no further business, the Meeting was adjourned at 8:15 p.m.

ADJOURN

Submitted by: Karen Holthe, SGHAD Clerk

SUBMITTED

ATTEST:

ATTEST

Marc Schwering, Chairperson

Date

DIRECTOR CERTIFICATION

CERTIFIED

I certify that I am an appointed Director of the Santiago Geologic Hazard Abatement District, and do hereby certify that the foregoing is a true and correct copy of the Minutes of the Santiago Geologic Hazard Abatement District Board of Directors Meeting held on April 21, 2020, as approved by the Board Members in attendance of the Meeting.

, Director

Date

GHAD Santiago
Balance Sheet
As of April 30, 2020

	<u>Apr 30, 20</u>
ASSETS	
Current Assets	
Checking/Savings	
TD Ameritrade	34,003.93
Total Checking/Savings	34,003.93
Total Current Assets	34,003.93
Other Assets	
TD Ameritrade - Investments	1,217,761.70
Total Other Assets	1,217,761.70
TOTAL ASSETS	<u>1,251,765.63</u>

GHAD Santiago
Profit & Loss
April 2020

	Apr 20
Ordinary Income/Expense	
Income	
Investment Income	1,389.45
Total Income	1,389.45
Gross Profit	1,389.45
Expense	
2282 Preventative Maint/Op	
Maintenance and Operations	
WELLMAN - Vaults, Casings, etc	6,965.07
Total Maintenance and Operations	6,965.07
Total 2282 Preventative Maint/Op	6,965.07
2310 Administration&Accounting	
ADACC - Admin & Accounting	1,500.00
ASSESS - Assessment Role & Levy	1,490.00
CLERK - GHAD CLERK	500.00
Total 2310 Administration&Accounting	3,490.00
Total Expense	10,455.07
Net Ordinary Income	-9,065.62
Net Income	-9,065.62

GHAD Santiago Check Register

April 2020

Apr 20

Date	Num	Name	Memo	Paid Amount
04/15/2020	16538610	Anaheim Public Utility	0132306000 4/7/20	-77.36
04/15/2020	16538618	Anaheim Public Utility	0016106000 4/7/20	-234.07
04/15/2020	16538628	Anaheim Public Utility	0146493000 4/7/20	-22.47
04/15/2020	16538629	Cardinal Property Management	033120	-500.00
04/15/2020	16538631	Anaheim Public Utility	0108110000 4/7/20	-15.72
04/15/2020	16538633	Anaheim Public Utility	0015960000 4/7/20	-12.46
04/15/2020	16538634	Anaheim Public Utility	0016665000 4/7/20	-16.37
04/15/2020	16538635	Anaheim Public Utility	0016011000 4/7/20	-20.03
04/15/2020	16538637	Anaheim Public Utility	0015985000 4/7/20	-112.61
04/15/2020	16538639	Anaheim Public Utility	0016087000 4/7/20	-885.51
04/17/2020	16543669	Anaheim Public Utility	0108138000 4/14/20	-122.73
04/17/2020	16543671	Anaheim Public Utility	0108139000 4/14/20	-172.09
04/17/2020	16543675	Anaheim Public Utility	0108112000 4/14/20	-239.65
04/29/2020 *	16559587	Cardinal Property Management	013120_Replacement check	-500.00
04/29/2020	16559591	ENGEO, Inc.		-8,024.00
Disbursement Total				<u><u>-10,955.07</u></u>
* 013120_Replacement check#16422405				<u>500.00</u>
Adjusted Disbursement Total				<u><u>-10,455.07</u></u>

9:22 AM

05/27/20

Cash Basis

GHAD Santiago

Transaction Detail by Account

April 2020

Type	Date	Num	Name	Paid Amount	Balance
TD Ameritrade					
Check	04/15/2020	16538610	Anaheim Public Utility	-77.36	-77.36
Check	04/15/2020	16538618	Anaheim Public Utility	-234.07	-311.43
Check	04/15/2020	16538628	Anaheim Public Utility	-22.47	-333.90
Check	04/15/2020	16538629	Cardinal Property Management	-500.00	-833.90
Check	04/15/2020	16538631	Anaheim Public Utility	-15.72	-849.62
Check	04/15/2020	16538633	Anaheim Public Utility	-12.46	-862.08
Check	04/15/2020	16538634	Anaheim Public Utility	-16.37	-878.45
Check	04/15/2020	16538635	Anaheim Public Utility	-20.03	-898.48
Check	04/15/2020	16538637	Anaheim Public Utility	-112.61	-1,011.09
Check	04/15/2020	16538639	Anaheim Public Utility	-885.51	-1,896.60
Check	04/17/2020	16543669	Anaheim Public Utility	-122.73	-2,019.33
Check	04/17/2020	16543671	Anaheim Public Utility	-172.09	-2,191.42
Check	04/17/2020	16543675	Anaheim Public Utility	-239.65	-2,431.07
Check	04/29/2020	16559587	Cardinal Property Management	-500.00	-2,931.07
Check	04/29/2020	16559591	ENGEO, Inc.	-8,024.00	-10,955.07
Deposit	04/30/2020			1,389.45	-9,565.62
Total TD Ameritrade				-9,565.62	-9,565.62
Investment Income					
Deposit	04/30/2020			-1,389.45	-1,389.45
Total Investment Income				-1,389.45	-1,389.45
2282 Preventative Maint/Op					
Maintenance and Operations					
WELLMAN - Vaults, Casings, etc					
Check	04/15/2020	16538610	Anaheim Public Utility	77.36	77.36
Check	04/15/2020	16538618	Anaheim Public Utility	234.07	311.43
Check	04/15/2020	16538628	Anaheim Public Utility	22.47	333.90
Check	04/15/2020	16538631	Anaheim Public Utility	15.72	349.62
Check	04/15/2020	16538633	Anaheim Public Utility	12.46	362.08
Check	04/15/2020	16538634	Anaheim Public Utility	16.37	378.45
Check	04/15/2020	16538635	Anaheim Public Utility	20.03	398.48
Check	04/15/2020	16538637	Anaheim Public Utility	112.61	511.09
Check	04/15/2020	16538639	Anaheim Public Utility	885.51	1,396.60
Check	04/17/2020	16543669	Anaheim Public Utility	122.73	1,519.33
Check	04/17/2020	16543671	Anaheim Public Utility	172.09	1,691.42
Check	04/17/2020	16543675	Anaheim Public Utility	239.65	1,931.07
Check	04/29/2020	16559591	ENGEO, Inc.	1,900.00	3,831.07
Check	04/29/2020	16559591	ENGEO, Inc.	600.00	4,431.07
Check	04/29/2020	16559591	ENGEO, Inc.	1,000.00	5,431.07
Check	04/29/2020	16559591	ENGEO, Inc.	1,000.00	6,431.07
Check	04/29/2020	16559591	ENGEO, Inc.	356.00	6,787.07
Check	04/29/2020	16559591	ENGEO, Inc.	178.00	6,965.07
Total WELLMAN - Vaults, Casings, etc				6,965.07	6,965.07
Total Maintenance and Operations				6,965.07	6,965.07
Total 2282 Preventative Maint/Op				6,965.07	6,965.07
2310 Administration&Accounting					
ADACC - Admin & Accounting					
Check	04/29/2020	16559591	ENGEO, Inc.	1,500.00	1,500.00
Total ADACC - Admin & Accounting				1,500.00	1,500.00
ASSESS - Assessment Role & Levy					
Check	04/29/2020	16559591	ENGEO, Inc.	1,490.00	1,490.00
Total ASSESS - Assessment Role & Levy				1,490.00	1,490.00
CLERK - GHAD CLERK					
Check	04/15/2020	16538629	Cardinal Property Management	500.00	500.00
Check	04/29/2020	16559587	Cardinal Property Management	500.00	1,000.00
Total CLERK - GHAD CLERK				1,000.00	1,000.00

9:22 AM
05/27/20
Cash Basis

GHAD Santiago
Transaction Detail by Account
April 2020

Type	Date	Num	Name	Paid Amount	Balance
Total 2310 Administration&Accounting				3,990.00	3,990.00
TOTAL				0.00	0.00



PO BOX 2577
OMAHA NE 68103-2577

SANTIAGO GEOLOGIC HAZARD ABATEMENT
DISTRICT
ATTN ENGEO INCORPORATED
2010 CROW CANYON PL STE 250
SAN RAMON, CA 94583-1344

Subject: Potential delays in receiving your statements and confirmations

Because of the impact COVID-19 has had on some of our print vendors' ability to produce and deliver communications by mail, as well as international mail delivery restrictions affecting the U.S. Postal Service, you may be experiencing delays in receiving account related information via USPS or other carriers. We regret any inconvenience this may cause you.

The good news: **You can always get your statements and confirmations online**, quickly, digitally, in real time. And when you subscribe to eDelivery, you'll receive an email whenever a new document is available online.

Thank you for your patience in this difficult time.

Sincerely,

TD Ameritrade

TDA 101380 L 04/20

Terms and Conditions

TD Ameritrade provides monthly statements for active accounts and inactive accounts with assets.¹

Account Summary: Tracks the current value of your account as of the report date and compares it to the prior month.

Retirement Account Activity Overview: Review the IRS regulated transactions for the current and prior years. IRS Form 5498 fair market value is based on the current account value including Alternative Investments as of December 31 of the previous year and will be furnished to the IRS.

Holdings Detail: View your investments at the current market value. The display of cost basis information is optional. Estimated Annual Income is strictly an estimate for future earnings based on past performance. There is no guarantee that you will receive this amount or any dividend. The value is calculated by taking the number of shares owned multiplied by the dividend rate over a rolling 12 month period. Estimated Yield is a value obtained by TD Ameritrade from quotation services or other independent sources. The display of estimated income and yield is for informational purposes only and is displayed at the Advisors request. This statement represents a statement of account assets and account activity of your account only.

Transaction Detail: All account activity is listed in date order, and reflected in the closing cash balance.

Trades Pending Settlement: Executed trades with a settlement date after month end. These transactions will be reflected in the Transaction Detail section next month.

Cash Services: Cash management transactions (including checks, debit card, credit card and ATM activity) that cleared this month are listed in date order.

TD Ameritrade does not provide legal or tax advice. Please consult your legal advisor or tax accountant when necessary. As a standard industry practice, phone conversations may be recorded for quality control and transaction verification purposes.

For TD Ameritrade Institutional clients, your advisor firm is separate from and not affiliated with TD Ameritrade, Inc. or TD Ameritrade Clearing, Inc., and each firm is not responsible for the products and services of the other.

Accuracy of Reports: Please review this statement carefully. If you disagree with any transaction, or if there are any errors or omissions, please notify us at 800-431-3500 within ten (10) days of your receipt of this statement. Any oral statements that you have made to us should be confirmed in writing. The statement will otherwise be considered conclusive.

Account Protection: TD Ameritrade FDIC Insured Deposit Account ("IDA") deposits are held at one or more banks ("Program Banks"). Two of the Program Banks are TD Bank N.A. and TD Bank USA, N.A., both affiliates of TD Ameritrade. IDA deposits are insured by the FDIC (not covered by SIPC) up to \$250,000. Limits are per account ownership per institution. To learn more about FDIC coverage go to www.fdic.gov. Securities, including mutual funds, held in your Brokerage Account are not deposits or obligations of, or guaranteed by, any bank, are not FDIC-insured, and involve investment risks, including possible loss of principal. TD Ameritrade is a member of SIPC, which protects securities customers of its members up to \$500,000 (including \$250,000 for claims for cash). Explanatory brochure is available on request at www.sipc.org.

Additionally, TD Ameritrade provides each client \$149.5 million worth of protection for securities and \$2 million of protection for cash through supplemental coverage provided by London insurers. In the event of a brokerage insolvency, a client may receive amounts due from the trustee in bankruptcy and then SIPC. Supplemental coverage is paid out after the trustee and SIPC payouts and under such coverage each client is limited to a combined return of \$152 million from a trustee, SIPC and London insurers. The TD Ameritrade supplemental coverage has an aggregate limit of \$500 million over all customers. This policy provides coverage following brokerage insolvency and does not protect against loss in market value of the securities.

An investment in a money market fund is not insured or guaranteed by the FDIC or any other government agency. Although certain money market funds may seek to preserve their value of your investment at \$1 per share, it is possible to lose money by investing in such a fund. Mutual fund purchases may be subject to eligibility and other restrictions, as well as charges and expenses. Certain money market funds may impose liquidity fees and redemption gates in certain circumstances. Dividends are declared daily and paid/reinvested monthly. The prospectus contains this and other important information. Read the prospectus carefully before investing. Non-deposit investments held by your broker-dealer are NOT FDIC INSURED / NOT BANK GUARANTEED / MAY LOSE VALUE.

The balance in your bank deposit account or shares of your money market mutual fund can be liquidated on your order, and the proceeds returned to your securities account or remitted to you.

Tax Reporting: The portfolio report is not a tax document. You will receive Form 1099 for annual tax reporting in compliance with IRS requirements (includes taxable interest, dividends, capital gains, taxes withheld, and sales proceeds). Some payments are subject to reclassification which will be reflected on subsequent tax reports.

Cost Basis: Cost-Basis, tax lot and performance reporting and Gainskeeper are offered and conducted by CCH INCORPORATED. TD Ameritrade is not responsible for the reliability or suitability of the information. TD Ameritrade and its information providers do not guarantee the accuracy of the information and data provided. CCH INCORPORATED is a separate company and is not affiliated with TD Ameritrade.

Margin and Options Account Agreements: Promptly advise TD Ameritrade in writing of any change in your investment objectives or financial situation as they pertain to your margin or options account agreements. Commission/Fee represents base commission and any options contract, exercise, and assignment fees.

Current Market Prices: The market values of securities have been obtained, if available, from quotation services and other independent sources. Values are based on the closing price, the mean between the bid and asking prices, or other methods. If no market value is available from a quotation service or other independent source, the security is subject to being reflected as Not Available ("NA"). The valuations on your portfolio report are provided as general information and we do not guarantee the accuracy of any securities prices. Mortgage backed positions are valued using the remaining balance and the current market price. Portfolio report valuations may not represent sales proceeds. The secondary market for Certificates of Deposits ("CDs") is generally illiquid and the actual value may be different from the purchase price. A significant loss of principal may result from the sale of a CD prior to maturity. Bonds and/or Fixed Income Securities trade differently than equity securities and do not trade on a liquid exchange. Rather, they trade in the OTC (over the counter) market and sufficient liquidity may not exist for you to sell your position prior to maturity. The sale of bonds prior to maturity may result in a loss of principal.

Bonds Quantity: The figure on the statement represents the number of bonds. For example, \$3,000 of a \$1,000 face value bond would display as "3" in the quantity.

Alternative Investments ("AI"), also called Non Standard Assets ("NSA"), are typically investments in direct participation program securities (partnerships, limited liability companies, or real estate investment trusts), commodity pools, private equity, private debt or hedge funds. AI are typically illiquid investments and do not trade on a national securities exchange. The values shown for these investments are estimated values derived from various methods, including, but not limited to, unconfirmed management estimates, independent appraisals, the program's net assets, and/or third party tender offers that have been provided by the management, administrator, and/or sponsor of each program, or by a third-party vendor without independent verification by TD Ameritrade. Values may not reflect the original purchase price, actual market value or be realized upon liquidation. If an estimated value cannot be established through these methods, the valuation may be reflected as Not Available ("NA"). For additional detail regarding valuation for Alternative Investments, please contact Client Services. These investments are not covered under the SIPC. AI transaction fees are applicable to purchases, capital call processing, and redemptions.

▲ Distributions on Direct Participation Programs and/or REITs are reported and a net investment per share estimated value is also reported. Pricing and distribution information has been provided by the sponsor, issuer or other external party responsible for reporting of the DPP or REIT and the classification of distributions as income or return of capital, in whole or in part, is subject to final accounting by such party(ies) and will be reported to you on a Form 1099 or K-1, as applicable.

Auction Rate Securities ("ARS") Pricing: The market values for ARS securities have been obtained, if available, from quotation services or other independent sources. The accuracy of the pricing is not guaranteed. If a market value is not available, TD Ameritrade will price the ARS position, taking into consideration both the liquidity and underlying credit quality. The ARS may lack liquidity and, as a result, there can be no assurance that such securities can be sold under current market conditions.

REGULATORY DISCLOSURES

All transactions are subject to (i) the constitution, rules, regulations, customs and usages of the exchange or market, and its clearing house, if any, on which such transactions are executed; (ii) federal laws and state laws, and the rules and regulations promulgated thereunder; and the rules and regulations of FINRA and the Federal Reserve System.

For an investor brochure that includes information describing FINRA's Public Disclosure Program, please contact FINRA at 800-289-9999 or www.finra.org.

The interest rate shown for TD Ameritrade Cash is taken from the applicable interest rate tier for the Market Value balance in the TD Ameritrade Cash, as of the statement closing date. Simple interest is accrued daily based on the interest rate tier applicable to each day's balance.

MSRB RULE G-10: TD Ameritrade, Inc. is registered with the Municipal Securities Rulemaking Board and the U.S. Securities and Exchange Commission. The website address for the Municipal Securities Rulemaking Board is <http://www.msrb.org>. An investor brochure is available on the website of the Municipal Securities Rulemaking Board which describes the protections that may be provided by the Municipal Securities Rulemaking Board rules and how to file a complaint with an appropriate regulatory authority.

Financial Statement Notification: The statement of financial condition for TD Ameritrade Clearing, Inc. is available twice a year and may be obtained at no cost, via the internet at <http://www.tdameritrade.com/financialstatement.html>.

Option Assignment: All short equity option positions and some index option positions are available for assignment. Exercise assignment notices for equity or index options are randomly allocated among all clients' short positions.

Free Credit Balances (Rule 15c3-2 & 3): Under the client protection rules, we may use free credit balances in your account in the ordinary course of our business which are payable to you on demand.

Margin Accounts (Regulation T): If you have a margin account, this report is a combination of your margin account and a special memorandum account. Trading on margin poses additional risks and is not suitable for all investors. A complete list of the risks associated with margin trading is available in the margin risk disclosure document. You may obtain a copy of this document by contacting us at the number listed on page one of your statement.

Payment for Order Flow Disclosure (Rules 606 and 607): The firm receives compensation for directing listed and OTC securities, and options order flow to selected market centers (e.g., broker-dealers, exchanges and alternative trading systems (including electronic communications networks)) for execution. Compensation generally is in the form of a per share or per contract cash payment. TD Ameritrade also may receive compensation related to the foreign currency exchange component of transactions in foreign securities from market centers executing such trades. TD Ameritrade posts SEC Rule 606 quarterly reports that include order routing disclosures at www.tdameritrade.com. A written copy is available upon request. In addition, on request, TD Ameritrade will provide the identity of the venue to which your orders were routed for execution in the six months prior to the request, whether the orders were directed orders or non-directed orders, and the time of the transactions, if any, that resulted from such orders.

TD Ameritrade regularly assesses the execution quality provided by the market centers to which we route order flow in seeking best execution for our clients. For non-directed client orders, it is our policy to route orders to market centers based on a number of factors that are more fully discussed in the Supplemental Materials of FINRA Rule 5310, including where applicable, but not necessarily limited to, speed of execution, price improvement opportunities, differences in price disimprovement, likelihood of executions, the marketability of the order, size guarantees, service levels and support, the reliability of order handling systems, customer needs and expectations, transaction costs and whether the firm will receive remuneration for routing order flow to such market centers. Price improvement is available under certain market conditions and for certain order types and we regularly monitor executions to test for such improvement if available.

Trade Confirmations (Rule 10b-10): All confirmations are transmitted on the transaction date. If you participate in the Dividend Reinvestment Plan (DRIP) details regarding the reinvestment of dividends will be included on your monthly statements. TD Ameritrade will act as agent in having your DRIP purchases executed.

Futures/Options Disclosures for EU Clients : In accordance with the Packaged Retail and Insurance-based Investment Products Regulation - EU No 1286, retail investors based in the European Economic Area (EEA) can access Key Information Documents (KIDs) through the following landing page: <https://tdameritrade.com/priips-regulation.page>

Taxes: Transactions in foreign securities (including foreign company ADRs that trade in the U.S.) may include taxes and fees charged by the foreign markets or governments, which may be reflected in the price of the security or charged as an independent line item.

Privacy Policy Notification: A copy of the TD Ameritrade privacy policy is available at www.tdameritrade.com

Callable Securities: The allocation of partial redemptions or calls is done using a pro-rata lottery system. A description of the procedures for callable securities is available on the website or hard copies are available upon request.

In case of errors or questions about your Electronic Fund Transfers, please contact us at 1-800-669-3900, or in writing to P.O. Box 2209, Omaha, NE 68103, or by email at clientservices@tdameritrade.com. The information contained in your account statement shall be binding upon you if you do not object within sixty (60) days for any transfer of funds subject to Regulation E, such as ATM and point-of-sale transfers, debit transactions, direct deposits, and withdrawals. We must hear from you no later than 60 days after we sent you the FIRST statement on which the error or problem appeared.

(1) Tell us your name and account number.
(2) Describe the error or the transfer you are unsure about, and explain as clearly as you can why you believe it is an error or why you need more information.
(3) Tell us the dollar amount of the suspected error.
We will investigate your complaint and will correct any error promptly. If we take more than 10 business days to do this, we will credit your account for the amount you think is in error, so that you will have the use of the money during the time it takes us to complete our investigation.

¹Due to rounding adjustments, the statement details may not equal the statement totals.



CAPTRUST

YOUR INDEPENDENT ADVISOR

CAPTRUST
2010 CROW CANYON PLACE
STE 210
SAN RAMON CA 94583

For questions regarding the services provided
by your Independent Advisor call
(800) 216-0645

MONTHLY STATEMENT

Reporting Period: **April 1 - 30, 2020**

Account 939-627615

**SANTIAGO GEOLOGIC HAZARD ABATEMENT
DISTRICT
ATTN ENGEO INCORPORATED
UNINCORPORATED ASSOCIATION**

ACCOUNT SUMMARY

Total Account Value: \$1,251,765.63

CHANGE IN ACCOUNT VALUE

	This Month 4/1/20 - 4/30/20	Year to Date 1/1/20 - 4/30/20
BEGINNING VALUE	\$1,259,036.81	\$1,305,973.22
Deposits to Account	-	500.00
Dividends and Interest	1,389.45	5,072.57
Market Appreciation/(Depreciation)	1,794.44	2,700.40
Withdrawals from Account	(10,455.07)	(62,480.56)
ENDING VALUE	\$1,251,765.63	\$1,251,765.63
CHANGE IN VALUE	\$(7,271.18)	\$(54,207.59)

Market Appreciation/ Depreciation

The change in value of
investments due to the market
assessment of their worth, which
is separate from value added by
corporate actions (such as the
issuance of dividend or interest
payments) and your own
additions or withdrawals.

SUMMARY OF HOLDINGS (does not represent an asset allocation)

	Market Value as of 4/30/20	Percent of Account
Cash and Cash Alternatives	\$34,003.93	2.72%
Fixed Income	957,761.70	76.51
Mutual Funds	260,000.00	20.77
TOTAL VALUE	\$1,251,765.63	100.0%

Fixed Income includes
Corporate, Municipal, Agency,
Treasury, CMOs, CDs, Structured
Products, etc.

Questions about reading your Statement -

Contact us. (800) 431-3500

Accounts carried by TD Ameritrade Clearing, Inc., Member SIPC



MONTHLY STATEMENT

Reporting Period: **April 1 - 30, 2020**

HOLDINGS DETAIL

CASH AND CASH ALTERNATIVES

Investment Description	Quantity	Price	Market Value
TD AMERITRADE CASH	-	\$ -	\$0.64
FDIC INSURED DEPOSIT ACCOUNT IDA12 NOT COVERED BY SIPC	-	-	34,003.29
TOTAL CASH & CASH ALTERNATIVES			\$34,003.93

FIXED INCOME

Investment Description	Symbol/ CUSIP	Purchase Date	Quantity	Closing Price	Market Value	Cost Basis	Unrealized Gain/(Loss)
AMERICAN EXPRESS NATIONAL BANK CD 3.1% 12/04/2020	02589AAX0	11/26/18	100	\$101.6642	\$101,664.20	\$100,000.00	\$1,664.20
BANK OF AMERICA NA CD 1.95% 05/01/2020	06051VJ80	7/24/19	100	100.0044	100,004.43	100,000.00	4.43
BARCLAYS BK DEL WILMINGTON CD 3% 11/09/2020	06740KMR5	10/31/18	100	101.3961	101,396.10	100,000.00	1,396.10
BMO HARRIS BK NATL ASSN CHICAG CD 1.75% 11/02/2020	05581W3B9	10/23/19	100	100.7252	100,725.20	100,000.00	725.20
GOVERNMENT NATIONAL MTG ASSN MBS 780631 7% 09/15/2027	36225AVY3	12/14/99	541.525	114.5386	1,950.72	551.80	1,398.92
JONESBORO STATE BANK CD 1.1% 06/30/2020	48040PGG4	3/23/20	100	100.127	100,127.00	100,000.00	127.00
JP MORGAN CHASE BANK NATIONAL CD M/W QTRLY CLBL 1.75% 10/31/2020	48128LHP7	10/23/19	100	100.3467	100,346.72	100,000.00	346.72
MORGAN STANLEY BK N A SALT LAK CD 2% 07/31/2020	61690UJM3	7/24/19	100	100.4199	100,419.93	100,000.00	419.93

Questions? Consult your Independent Advisor:
CAPTRUST (800) 216-0645



MONTHLY STATEMENT

Reporting Period: **April 1 - 30, 2020**

HOLDINGS DETAIL *(continued)*

FIXED INCOME

Investment Description	Symbol/ CUSIP	Purchase Date	Quantity	Closing Price	Market Value	Cost Basis	Unrealized Gain/(Loss)
SANDY SPRING BK OLNEY MD CD 1.6% 09/14/2020	800364DH1	2/4/20	100	100.4746	100,474.60	100,000.00	474.60
SANTANDER BANK NATIONAL ASSN CD 1.55% 05/19/2020	80280JTE1	1/30/20	100	100.0633	100,063.30	100,000.00	63.30
WELLS FARGO BANK NATIONAL ASSN CD MTHLY 1.75% 03/01/2021	949763T48	1/21/20	50	101.179	50,589.50	50,000.00	589.50
TOTAL FIXED INCOME					\$957,761.70	\$950,551.80	\$7,209.90

MUTUAL FUNDS

Investment Description	Symbol/ CUSIP	Purchase Date	Quantity	Closing Price	Market Value	Cost Basis	Unrealized Gain/(Loss)
JPMORGAN FUNDS 100% US TREASURY MMKT PREMIER	VHPXX	4/1/20	260,000	\$1.00	\$260,000.00	\$260,000.00	\$-
TOTAL MUTUAL FUNDS					\$260,000.00	\$260,000.00	-

TOTAL HOLDINGS					\$1,251,765.63	\$1,210,551.80	\$7,209.90
TOTAL ACCOUNT VALUE					\$1,251,765.63		

MONTHLY STATEMENT

Reporting Period: **April 1 - 30, 2020**

TRANSACTIONS DETAIL

Transaction Date	Settlement Date	Activity Type	Description	Symbol/ CUSIP	Quantity	Price	Transaction Amount
04/01	04/02	Sell	FEDERATED INVESTORS GOVT OBLIGATIONS SERVICE SHORT TERM RDM FEE 0.00	GOSXX	(277,356.47)	\$1.00	\$277,356.47
04/01	04/02	Buy	JPMORGAN FUNDS 100% US TREASURY MMKT PREMIER	VHPXX	260,000	1.00	(260,000.00)
04/02	04/03	Sell	FEDERATED INVESTORS GOVT OBLIGATIONS SERVICE SHORT TERM RDM FEE 0.00	GOSXX	(151.42)	1.00	151.42
04/15	04/15	Dividends and Interest	GOVERNMENT NATIONAL MTG ASSN MBS 780631 7% 09/15/2027 PAYABLE: 04/15/2020 TAXABLE INT CREDITED 10.05	36225AVY3	-	-	10.05
04/15	04/15	-	GOVERNMENT NATIONAL MTG ASSN MBS 780631 7% 09/15/2027 PAYABLE: 04/15/2020 PRINCIPAL DIST 21.77	36225AVY3	-	-	21.77
04/15	04/15	Withdrawals from Account	CASH DISBURSEMENT CHK 16538610 0132306000 4/7/20	-	-	-	(77.36)
04/15	04/15	Withdrawals from Account	CASH DISBURSEMENT CHK 16538618 0016106000 4/7/20	-	-	-	(234.07)
04/15	04/15	Withdrawals from Account	CASH DISBURSEMENT CHK 16538628 0146493000 4/7/20	-	-	-	(22.47)
04/15	04/15	Withdrawals from Account	CASH DISBURSEMENT CHK 16538629 033120	-	-	-	(500.00)
04/15	04/15	Withdrawals from Account	CASH DISBURSEMENT CHK 16538631 0108110000 4/7/20	-	-	-	(15.72)
04/15	04/15	Withdrawals from Account	CASH DISBURSEMENT CHK 16538633 0015960000 4/7/20	-	-	-	(12.46)
04/15	04/15	Withdrawals from Account	CASH DISBURSEMENT CHK 16538634 0016665000 4/7/20	-	-	-	(16.37)

Questions? Consult your Independent Advisor:
CAPTRUST (800) 216-0645



MONTHLY STATEMENT

Reporting Period: **April 1 - 30, 2020**

TRANSACTIONS DETAIL *(continued)*

Transaction Date	Settlement Date	Activity Type	Description	Symbol/ CUSIP	Quantity	Price	Transaction Amount
04/15	04/15	Withdrawals from Account	CASH DISBURSEMENT CHK 16538635 0016011000 4/7/20	-	-	-	(20.03)
04/15	04/15	Withdrawals from Account	CASH DISBURSEMENT CHK 16538637 0015985000 4/7/20	-	-	-	(112.61)
04/15	04/15	Withdrawals from Account	CASH DISBURSEMENT CHK 16538639 0016087000 4/7/20	-	-	-	(885.51)
04/17	04/17	Withdrawals from Account	CASH DISBURSEMENT CHK 16543669 INVOICE - 0108138000 4/14/20	-	-	-	(122.73)
04/17	04/17	Withdrawals from Account	CASH DISBURSEMENT CHK 16543671 INVOICE - 0108139000 4/14/20	-	-	-	(172.09)
04/17	04/17	Withdrawals from Account	CASH DISBURSEMENT CHK 16543675 INVOICE - 0108112000 4/14/20	-	-	-	(239.65)
04/29	04/29	Dividends and Interest	WELLS FARGO BANK NATIONAL ASSN CD MTHLY 1.75% 03/01/2021 PAYABLE: 04/29/2020 TAXABLE INT CREDITED 74.32	949763T48	-	-	74.32
04/29	04/29	Withdrawals from Account	CASH DISBURSEMENT CHK 16559587 INVOICE #13120	-	-	-	(500.00)
04/29	04/29	Withdrawals from Account	CASH DISBURSEMENT CHK 16559591 # 251720	-	-	-	(8,024.00)
04/29	04/29	Withdrawals from Account	STOP PAYMENT: CHECK 16422405 ISSUED 03/02/2020 FOR \$500	-	-	-	500.00
04/30	04/30	Dividends and Interest	BMO HARRIS BK NATL ASSN CHICAG CD 1.75% 11/02/2020 PAYABLE: 04/30/2020 TAXABLE INT CREDITED 872.60	05581W3B9	-	-	872.60
04/30	04/30	Dividends and Interest	JP MORGAN CHASE BANK NATIONAL CD M/W QTRLY CLBL 1.75% 10/31/2020 PAYABLE: 04/30/2020 TAXABLE INT CREDITED 431.51	48128LHP7	-	-	431.51

Questions? Consult your Independent Advisor:
CAPTRUST (800) 216-0645

MONTHLY STATEMENT

Reporting Period: **April 1 - 30, 2020**

TRANSACTIONS DETAIL *(continued)*

Transaction Date	Settlement Date	Activity Type	Description	Symbol/ CUSIP	Quantity	Price	Transaction Amount
04/30	04/30	Dividends and Interest	FEDERATED INVESTORS GOVT OBLIGATIONS SERVICE PAYABLE: 04/30/2020 ORDINARY DIVIDENDS 0.64	GOSXX	-	-	0.64
04/30	04/30	Dividends and Interest	FDIC INSURED DEPOSIT ACCOUNT IDA12 NOT COVERED BY SIPC ON .33 SHARES INTEREST: INSURED DEPOSIT ACCOUNT BANK NA PAYABLE: 04/30/2020	MMDA12	0.33	-	0.33

TD AMERITRADE CASH INTEREST CREDIT/EXPENSE

Begin Date	Margin Balance	Credit Balance	Number of Days	Interest Rate	Interest Debited	Interest Credited
04/30	\$-	\$0.64	1	0.0100	-	\$ -
TOTAL INTEREST INCOME/(EXPENSE)					-	-

INSURED DEPOSIT ACCOUNT TD AMERITRADE INTEREST CREDIT/EXPENSE

Begin Date	Balance	Number of Days	Interest Rate	Interest Accrued	MTD Accrued	MTD Paid
04/01	\$25,539.89	1	0.0100	\$0.01	\$0.01	\$ -
04/02	42,896.36	1	0.0100	0.01	0.02	-
04/03	43,047.78	12	0.0100	0.14	0.16	-

Questions? Consult your Independent Advisor:
CAPTRUST (800) 216-0645

MONTHLY STATEMENT

Reporting Period: **April 1 - 30, 2020**

INSURED DEPOSIT ACCOUNT TD AMERITRADE INTEREST CREDIT/EXPENSE *(continued)*

Begin Date	Balance	Number of Days	Interest Rate	Interest Accrued	MTD Accrued	MTD Paid
04/15	41,183.00	2	0.0100	0.02	0.18	-
04/17	40,648.53	12	0.0100	0.14	0.32	-
04/29	32,698.85	1	0.0100	0.01	0.33	-
04/30	34,002.96	1	0.0100	-	0.33	0.33
TOTAL INTEREST INCOME						\$0.33

MONTHLY STATEMENT

Reporting Period: **April 1 - 30, 2020**

INSURED DEPOSIT ACCOUNT ACTIVITY

Transaction Date	Settlement Date	Transaction	Description	Amount	Balance
Opening Balance					\$25,539.89
04/02	04/02	Received	FDIC INSURED DEPOSIT ACCOUNT IDA12 NOT COVERED BY SIPC PURCHASE FDIC INSURED DEPOSIT ACCOUNT	\$17,356.47	42,896.36
04/03	04/03	Received	FDIC INSURED DEPOSIT ACCOUNT IDA12 NOT COVERED BY SIPC PURCHASE FDIC INSURED DEPOSIT ACCOUNT	151.42	43,047.78
04/15	04/15	Received	FDIC INSURED DEPOSIT ACCOUNT IDA12 NOT COVERED BY SIPC PURCHASE FDIC INSURED DEPOSIT ACCOUNT	31.82	43,079.60
04/16	04/16	Delivered	FDIC INSURED DEPOSIT ACCOUNT IDA12 NOT COVERED BY SIPC REDEMPTION FDIC INSURED DEPOSIT ACCOUNT	(1,896.60)	41,183.00
04/20	04/20	Delivered	FDIC INSURED DEPOSIT ACCOUNT IDA12 NOT COVERED BY SIPC REDEMPTION FDIC INSURED DEPOSIT ACCOUNT	(534.47)	40,648.53
04/29	04/29	Received	FDIC INSURED DEPOSIT ACCOUNT IDA12 NOT COVERED BY SIPC PURCHASE FDIC INSURED DEPOSIT ACCOUNT	74.32	40,722.85
04/30	04/30	Delivered	FDIC INSURED DEPOSIT ACCOUNT IDA12 NOT COVERED BY SIPC REDEMPTION FDIC INSURED DEPOSIT ACCOUNT	(6,719.89)	34,002.96

MONTHLY STATEMENT

Reporting Period: **April 1 - 30, 2020**

INSURED DEPOSIT ACCOUNT ACTIVITY *(continued)*

Transaction Date	Settlement Date	Transaction	Description	Amount	Balance
04/30	04/30	Received	INTEREST: INSURED DEPOSIT ACCOUNT BANK NA	0.33	34,003.29

Closing Balance

TD Bank NA

\$34,003.29

\$34,003.29

***FDIC Insured Deposit Account (IDA)** balances reflected in your brokerage account are FDIC-insured up to applicable limits and held by one or more banks ("Program Banks"). Two of the Program Banks are TD Bank, N.A. and TD Bank USA, N.A., both affiliates of TD Ameritrade. The IDA balances are not covered by the Securities Investor Protection Corporation (SIPC) protection applicable to your brokerage account.*

**** THANK YOU FOR CHOOSING TD AMERITRADE INSTITUTIONAL - END OF STATEMENT ****

Statement of Qualifications Santiago GHAD Manager Anaheim, California



PREPARED BY:
ENGEO Incorporated

May 24, 2020

PROJECT NO.
P2020.001.020

SUBMITTED TO:
Santiago GHAD Board of
Directors
Attention: Matthew Swanson
GHAD Manager
320 Goddard Way, Suite 100
Irvine, CA 92618
mswanson@engeo.com

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Project No.
P2020.001.020

May 24, 2020

Santiago GHAD Board of Directors
Attention: Matthew Swanson, GHAD Manager
320 Goddard Way, Suite 100
Irvine, CA 92618

Subject: Statement of Qualifications for GHAD Manager
Anaheim, California

COVER LETTER

Dear Santiago GHAD Board of Directors,

Thank you for the opportunity to submit our qualifications to provide professional management services for the Santiago GHAD. As you are aware, ENGEO has been working with the Santiago GHAD Board of Directors for the past 4 years on the Santiago GHAD and we remain committed to your success. The benefits of choosing ENGEO include:

- Our engineers and geologists are proven experts in slope stability and geologic hazard mitigation.
- ENGEO is the recognized leader in GHAD formation and law, which means we have an innate understanding of GHAD powers and responsibilities.
- Our professionals have unmatched expertise in providing management and engineering services for GHADs throughout California; ENGEO's president is a founding director of the California Association of GHADs and its current president.
- ENGEO currently provides management and engineering services for 10 GHADs including: Moraga, Hayward, Wiedemann Ranch, Wendt Ranch, Orinda, Leona Quarry, Oakland Area, Santa Paula, Santiago, and Broad Beach.
- With more than 200 engineers and geologists on staff, you will receive an unsurpassed level of service and accountability.
- Emergency response – ENGEO maintains a toll-free emergency phone number that is answered 24/7. We have mobilized in the middle of the night to protect public safety and provide emergency protection in residential communities experiencing urgent geologic events.

Our approach to serving you will involve our in-house team of geologists, engineers and field staff, who will monitor conditions at each site and advise you as to any recommended actions. We are pleased to be of service and welcome any questions you may have.

Sincerely,

ENGEO Incorporated



Matthew Swanson, PE, QSD
Associate and Project Manager



Eric Harrell, CEG – authorized to bind contractually
Principal

2.0 QUALIFICATIONS AND EXPERIENCE

2.1 COMPANY OVERVIEW

ENGEO has more experience in GHAD policy development, law and management than any other firm. In our nearly 50 years of experience, ENGEO has been involved in the vast majority of the GHADs in California. With a staff of registered Geotechnical Engineers and Certified Engineering Geologists that is second to none, and with over 500 combined years of specific, related experience, Geologic Hazard Abatement Districts represent a core business for ENGEO.

ENGEO is an employee-owned firm of more than 200 geotechnical and civil engineers, geologists, hydrologists and environmental scientists, as well as a large construction services QA/QC team. Founded in 1971, we have offices located throughout California.



ENGEO serves projects in transportation, infrastructure, water resources, geologic hazards, flood control, critical facilities, residential and mixed-use communities, urban infill, Brownfields and transit oriented developments. We assist in every phase of project development from the due diligence for land use acquisition and planning through entitlement, permitting, design, construction and project build-out. We actively participate in the engineering and construction of large-scale master-planned, mixed-use developments, including associated infrastructure.

2.2 GEOLOGIC HAZARD ABATEMENT DISTRICTS

The Beverly Act of 1979 and the enabling statute (Division 17 of the Public Resources Code, Sections 26500-26654) provided for the formation of a local assessment district for the purpose of prevention, mitigation, abatement or control of geologic hazards. ENGEO has been involved in the development, implementation, and monitoring of the majority of Geologic Hazard Abatement Districts (GHAD) since their inception. ENGEO is serving as the GHAD Manager for numerous GHADs including Moraga, Hayward, Santiago, Wiedemann Ranch, Wendt Ranch, Orinda, Broad Beach, Santa Paula, Leona Quarry and Oakland Area.



ENGEO developed the first Geologic Hazard Abatement District in Northern California and the first GHAD to be applied to a new development, leading the implementation and monitoring of this GHAD, and developing best practices for other GHADs throughout the state.

ENGEO President Uri Eliahu, GE, is a Founding Director and President of the California Association of GHADs. Mr. Eliahu coordinated the establishment of most of California's Geologic Hazard Abatement District properties, including the largest GHADs in the state. In all, he has overseen the formation of more than 25 GHADs.

Our long experience with the terrain and geologic conditions in the region makes it possible for us to provide uniquely insightful and cost-efficient solutions for geologic hazard abatement. With nearly 50 years of accumulated data on thousands of landslides, stabilization schemes and other

practices, we have vast knowledge of the region's geologic conditions and are experts at mitigation designs that are practical and reliable in achieving the protection of public safety.

ENGEO is the leader in GHAD education, development of best practices and legislative activity. We have presented many GHAD workshops and symposia. We have developed several comprehensive presentations customized for various audiences and have delivered GHAD presentations to many legal, political and industry associations, and public agencies including:

- Central Valley Flood Protection Board
- State of California Department of Water Resources
- State of California Reclamation Board
- County of Los Angeles
- City of Los Angeles
- City of Brentwood
- City of Lathrop
- City of Mission Viejo
- City of Milpitas
- City of Laguna Beach
- City of Santa Paula
- City of Hayward
- Contra Costa County
- City of San Ramon
- City of Oakland
- City of San Francisco
- City of Fairfield
- City of Hercules
- Town of Danville
- City of Millbrae
- City of San Leandro
- San Mateo County
- Town of Moraga
- City of Anaheim

2.3 CASE STUDY

Wiedemann Ranch GHAD—Contra Costa County (2005 – present)

The Wiedemann Ranch Geologic Hazard Abatement District (GHAD) was formed in 1998 and included the Norris Canyon Estates Development in Contra Costa County. In 2001, the Henry Ranch development in San Ramon was annexed into the Wiedemann Ranch GHAD. In 2014 and 2016 respectively, the Elworthy Ranch and Red Hawk developments in Danville were annexed into the GHAD. ENGEO prepared the Plans of Control, Engineer's Reports and budgets for the GHAD formation and the annexations. The members of the Contra Costa County Board of Supervisors act as the Board of Directors for the GHAD.

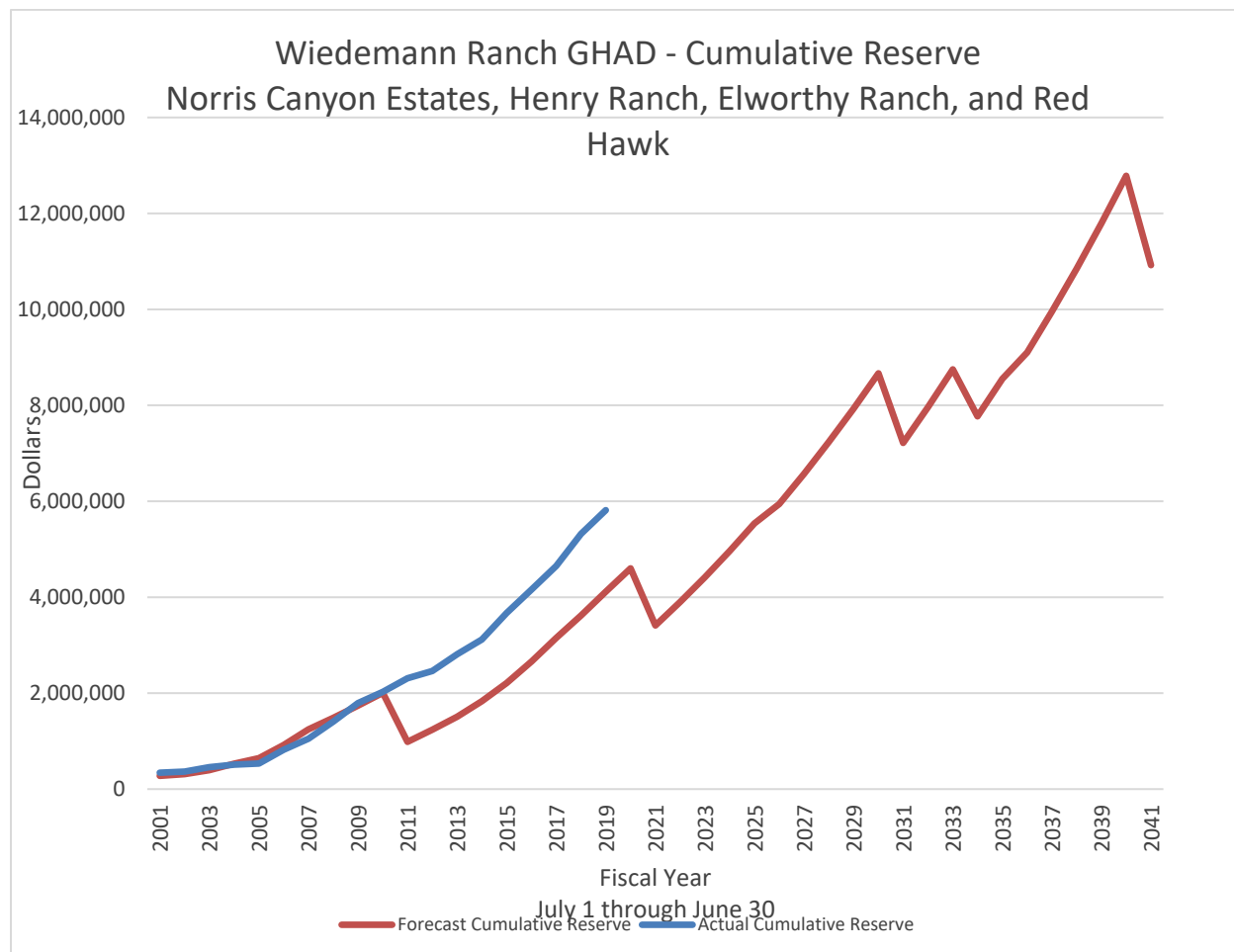
Administration

ENGEO was selected as the GHAD Manager for the Wiedemann Ranch GHAD in May of 2005 and we continue to serve as the GHAD Manager.

ENGEO has prepared annual fiscal year budgets for the Board of Directors consideration and approval since we were selected as GHAD Manager. To do this, we have relied on the expense information in the approved Engineer's Reports for each of the 4 developments. Our philosophy is that since we developed the original budgets, unless the scope of the GHAD administration has changed, we can administer the GHAD for the estimated amount. For the past 15 years we have administered the Wiedemann Ranch GHAD for the inflation-adjusted amount based on the approved Engineer's Report.

Budget and Reserve Accumulation

As discussed earlier, ENGEO prepared budgets in 2001, 2014, and 2016 that were the basis for the Engineer's Report that established the assessment limits within the 4 developments. We have reviewed our forecast and the actual budget figures for the 2005/2006 through 2018/19 fiscal years which start July 1 and extend through June 30 of the following calendar year. These figures are shown on the graph below.



We are proud of our financial management of the Wiedemann Ranch GHAD that has allowed a higher percentage of the assessments to go to reserve accumulation. We attribute the additional reserve accumulation to a number of factors including: (1) The Wiedemann Ranch GHAD has yet to accept monitoring and maintenance responsibilities for all areas within the GHAD as some of the areas remain the responsibility of the developer, (2) eight of the past twelve winters have had below-average rainfall; therefore, there has been a reduced level of slope instability and erosion, (3) a large-scale repair (estimated at \$1,000,000 in 2001 dollars every 10 years) has not been necessary within the GHAD-maintained areas and, (4) the budgets submitted and expenditures by the GHAD manager reflect the lower level of activity due to weather conditions and limited geographic responsibilities, thus allowing a higher percentage of the GHAD revenues to be applied to the reserve portion of the budget, while maintaining an appropriate monitoring and maintenance program.

Site Management

As part of the GHAD's on-going monitoring and maintenance program we have identified maintenance needs for GHAD-maintained areas and improvements. For the past 15 years, we have funded these maintenance activities in a prudent manner while maintaining a healthy reserve. ENGEO has prepared RFPs and has in place a contract for ongoing maintenance and emergency response services within the GHAD.

2.4 SELECT PROJECT EXPERIENCE

Santa Paula GHAD—Santa Paula, CA

The Santa Paula GHAD was formed in 2008 and ENGEO has been serving as the GHAD Manager for the Santa Paula GHAD since 2014, as the parcels within the GHAD were beginning to be transferred to the GHAD. The Santa Paula GHAD includes 75 single family residences in addition to open space areas that are owned by the GHAD. ENGEO prepared the Plan of Control, Engineer's Report and budget for the GHAD formation. The members of the Santa Paula City Council act as the Board of Directors. ENGEO has monitored and maintained the GHAD-owned and GHAD-maintained improvements within the Santa Paula GHAD since acceptance of the improvements in 2016.

Broad Beach GHAD—Malibu, CA

ENGEO was the lead consultant in the formation of the Broad Beach GHAD and has been the manager since 2011. The high-profile beach restoration adjacent to multi-million dollar residential properties required an innovative solution for an entity that could monitor and maintain beach-related improvements in perpetuity. ENGEO was retained to explore the legal, technical, and financial applicability, working closely with property owners, legal counsel, the City of Malibu, and other project stakeholders to create an appropriate structure and scope of responsibility. In addition to the monitoring and mitigation of beach erosion, the GHAD is also responsible for the following:

- Periodic inspection of a rock revetment structure
- Inspection and maintenance of restored dunes and habitat
- Inspection and maintenance of beach drainage facilities

In preparing the key GHAD documents, including the Plan of Control and the Engineer's Report, ENGEO carefully assessed critical geotechnical and geologic hazards associated with the project, including erosion, liquefaction and seismicity, slope stability, and tsunami-related risks. Additionally, ENGEO prepared a comprehensive budget and related long-term cash flow sensitivity analysis to determine an appropriate and prudent assessment level for the property owners.

Dublin GHADs (Fallon Crossing, Fallon Village, and Schaefer Ranch)—Dublin, CA

ENGEO has served as the GHAD Services Consultant for the three GHADs located within Dublin for the past five years. ENGEO prepared the Plans of Control and Engineer's Reports for four of the five developments located within Dublin GHADs. The members of the Dublin City Council act as the Board of Directors for the GHADs. ENGEO provides day-to-day operation of the GHAD-owned parcels and GHAD-maintained improvements. In addition, ENGEO works with the GHAD Manager and GHAD Boards of Directors on preparation of annual budgets, Engineer's Reports, transfer acceptance, and other operations of the GHADs.

Wendt Ranch GHAD—Contra Costa County, CA

ENGEO prepared the Plan of Control for this GHAD allowing annexation of the Intervening Properties and Alamo Creek developments into the Wendt Ranch GHAD. ENGEO has been retained by Contra Costa County to serve as GHAD Manager for the Wendt Ranch GHAD, the boundaries of which include the Wendt Ranch, Intervening Properties (Monterosso) and Alamo Creek projects. The GHAD responsibilities are similar to those of some other GHADs, in that the duties assumed by the GHAD are not confined to landsliding and slope stability issues. The Wendt Ranch GHAD has significant responsibilities for managing water quality facilities, including creek management and monitoring; creek bank stability and off-site sediment transport; and conservation easements and the ownership of open space, which were incorporated into the Plan of Control and Engineer's Reports. ENGEO has long experience and a comprehensive understanding of the management methods required to comply with regulatory agency and conservation easement requirements under these responsibilities, in addition to our proven track record for successful mitigation and monitoring plans.

**Wiedemann Ranch GHAD—Contra Costa County, San Ramon, and Danville, CA**

The Wiedemann Ranch GHAD was formed in 1998 and included the Norris Canyon Estates Development in Contra Costa County. In 2000, the Henry Ranch development in San Ramon was annexed into the Wiedemann Ranch GHAD. The Elworthy Ranch development was annexed into the GHAD in 2014 followed by the Redhawk development in 2016. ENGEO prepared the Plans of Control, Engineer's Reports and budgets for the GHAD formation and annexations. The Contra Costa County Board of Supervisors act as the Board of Directors for the GHAD. ENGEO was selected as the GHAD Manager for the Wiedemann Ranch GHAD in May of 2005 and continues to serve as the GHAD Manager.

Leona Quarry GHAD—Oakland, CA

Since 2005, ENGEO has served as the GHAD manager for the Leona Quarry GHAD. The Leona Quarry GHAD currently includes the Monte Vista Villas development and 23 single-family residences on Campus Drive. As GHAD Manager, ENGEO has provided coordination with the City of Oakland, the Alameda County Assessor's Office, the GHAD clerk/treasurer, the GHAD attorney and residents within the District. In addition, ENGEO has worked to prepare annual assessment roles, assessment level, and preparation of status letters as required in the project conditions of approval.

Oakland Area GHAD—Oakland, CA

ENGEO acts as the GHAD Manager for the Oakland Area GHAD. In addition, ENGEO prepared the Oakland Area GHAD Plan of Control and Engineer's Report. The purpose of the Oakland Area GHAD is to serve as a "conglomeration" GHAD for smaller residential projects within the City of Oakland. A conglomeration GHAD provides a cost-effective means for GHAD formation for smaller projects. By combining several projects into the conglomeration GHAD, the smaller, individual projects realize economies of scale normally enjoyed by larger projects, thereby lowering potential levies to homeowners and creating a more efficient management structure.

Orinda GHAD—Orinda CA

The Orinda GHAD was formed in March of 2008 with both the Wilder and Orinda Oaks developments. ENGEO prepared the Plan of Control, Engineer's Report and budget, and formation documents for both developments. The Wilder development includes 245 single-family residential lots, community playfields, a community art and garden center, a swim center, public trails, detention basins and water quality basins. The



Orinda Oaks development includes 12 single-family residential lots, bioretention facilities, and detention basin. ENGEO has been the GHAD Manager since the formation of the Orinda GHAD and is responsible for day-to-day management activities. In addition, ENGEO provides geotechnical services for the Orinda GHAD such as scheduled geotechnical site monitoring events, design and observation of repair activities, and oversight of regular site maintenance.

Moller Ranch GHAD—City of Pleasanton, CA

ENGEO has provided on-going monitoring services for this City of Pleasanton-governed GHAD since its inception in 1998. ENGEO is performing periodic site reconnaissance to satisfy the monitoring requirements of the GHAD. Our scope of services has included:



- Reconnaissance of common area cut slopes located adjacent to improvements
- Observation of areas of known landslide repair undertaken during the mass grading operations
- Observation of subdrain outlets
- Observation of the lined surface drainage ditches and catch basin inlets for debris
- Observation of curb and gutter alignments
- Monitoring of areas of potential slope instability documented in earlier geotechnical studies and that are located adjacent to existing improvements

Laurel Creek Estates GHAD—City of Pleasanton, CA

ENGEO has prepared and implemented the Plan of Control for this GHAD since its formation in 1997. Items addressed during ENGEO's monitoring events include:

- A reconnaissance of common area cut slopes located adjacent to improvements
- Observation of areas of known landslide repair undertaken during the mass grading operations
- Observation of known, readily accessible subdrain outlets installed during the mass grading
- Observation of the lined surface drainage ditches and catch basin inlets for debris
- Observation of selected curb and gutter alignments.

Oak Tree Farm Property GHAD—City of Pleasanton, CA

ENGEO prepared the Plan of Control and has provided on-going services for this GHAD since 1998. Some of the items addressed during the monitoring events include:

- Reconnaissance of slopes; observation of areas of known landslide repair undertaken during the mass grading operations

- Observation of known, readily accessible subdrain outlets installed during the mass grading
- Observation of the lined surface drainage ditches and catch basin inlets for debris
- Observation of selected curb and gutter alignments
- Monitoring of areas of potential slope instability that were documented in earlier geotechnical studies and that are located adjacent to existing improvements

Blackhawk GHAD—Contra Costa County, CA

This is the first GHAD in Northern California and the first GHAD to be applied to a new development. ENGEO has led the formation, implementation and monitoring of this GHAD since the mid-1980s. ENGEO has provided on-going monitoring services for this GHAD in accordance with the Plan of Control. ENGEO has accumulated nearly 30 years of geotechnical and other site data for the Blackhawk community. Our services have included:

- Extensive engineering analyses, designs and recommendations
- Geologic consultation and numerous repair recommendations
- Development of instrumentation monitoring and bi-annual reconnaissance to observe and report the general conditions of the slopes adjacent to the development
- Assessment of conditions of site drainage in the open space and common areas
- Preventive maintenance and operations
- Initial incident response and evaluation
- Inclinator measurements not related to on-going projects
- Data collection and maintenance of GHAD weather station
- Aerial photography review
- General consultation on landslide and erosion hazards, analysis and mitigation schemes
- Conducting public meetings with GHAD representatives, homeowners and/or the Blackhawk homeowners association.

Dougherty Valley GHAD—Contra Costa County, CA

Since 1985, ENGEO has been the lead geotechnical consultant for Dougherty Valley, a new 5,500-acre community in Contra Costa County. The West Branch GHAD, as part of this, is managed by the City of San Ramon. We are responsible for environmental permitting assistance, geotechnical and geologic investigations, hydrologic design, development of foundation design criteria, and construction inspection and testing. During the development process ENGEO led meetings with City, County and regulatory personnel.



Although ENGEO is involved in the formation of larger GHADs, the Dougherty Valley GHAD is the largest GHAD in operation. ENGEO planned and executed the formation of this GHAD for projects within the Dougherty Valley. Services included preparation of multiple plans of control, establishment of assessment levels, and development of proposed budgets to allow for adequate reserve accumulation.

Preventive maintenance and monitoring sections within the Plan of Control include: Monitoring of sophisticated instruments, reconnaissance of slopes located adjacent to improvements; observation of areas of known landslide repair; management of creek banks and detention basins; observation of

subdrain outlets; observation of the lined surface drainage ditches and catch basin inlets for debris; and observation of selected curb and gutter alignments.

Bay-O-Vista GHAD—San Leandro, CA

ENGEO prepared a GHAD Plan of Control and a budget to establish a GHAD for the existing hillside neighborhoods in the Bay-O-Vista area of San Leandro. The purpose of the proposed GHAD was to administer the construction of proposed landslide repairs above Hillside Circle and to provide for prevention, abatement and mitigation of geologic hazards affecting existing privately-owned properties and public improvements and the maintenance of existing slopes. The Plan of Control (POC) was designed to delineate the general responsibilities and procedures for the functioning of the proposed GHAD. The POC was based on our experience with similar projects. The limits of the proposed GHAD encompassed an area of approximately 350 acres, including several hundred existing private residential properties and numerous publicly-maintained streets. The area was subdivided and developed over a long period of time roughly between the 1950s and the 1970s.

Canyon Lakes GHAD—San Ramon, CA

ENGEO has led the implementation and monitoring of this GHAD since its inception in 1986. ENGEO has provided on-going monitoring services for this GHAD in accordance with the Plan of Control. Our services have included:

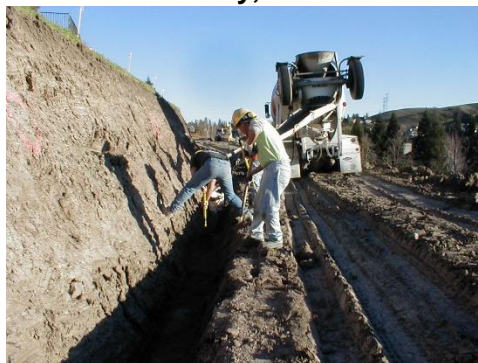
- Extensive engineering and geologic consultation and repair recommendations
- Development of instrumentation monitoring and bi-annual reconnaissance to observe and report on the general conditions of the slopes adjacent to the development
- Assessment of conditions of site drainage in the open space and common areas
- Preventive maintenance and operations
- Conducting public meetings with GHAD representatives and homeowners



Conifer Terrace Landslide Repair Project—Blackhawk Contra Costa County, CA

ENGEO's involvement with this project started in early 2000 and was completed by June 30, 2002. The project involved the construction of an innovative tieback anchor system on an unstable slope located between Conifer Terrace and Sequoia Terrace in Blackhawk. With ENGEO's oversight, the tieback installation successfully arrested the movement of a large landslide that directly threatened about 15 homes.

Prior to the start of construction, ENGEO was involved with an evaluation of multiple alternatives for stability improvements on the hill slope. Based on the time of year, the site conditions, risks and an analysis of the costs associated with each repair method, ENGEO recommended a unique tieback anchor system that was successfully constructed. ENGEO prepared cost estimates for the GHAD for design, construction and monitoring services for their use in the bid process. ENGEO participated in meetings involving the Blackhawk GHAD, Blackhawk Home Owner's Association and individual homeowners.



During construction, ENGEO provided on-site quality control services, cost saving recommendations and review services for suggestions by the contractor. ENGEO participated with the Blackhawk GHAD to modify its existing fee schedule to allow for more efficient coverage of the project. In addition, agreements with the GHAD allowed oversight functions that extended beyond concrete, steel, and soil testing and construction observation.

River Islands GHAD—Lathrop, CA

ENGEO prepared the River Islands GHAD Plan of Control. Among many other duties, the GHAD will monitor and maintain over 20 miles of levees and 300 acres of lakes. A four-thousand-acre project, the River Islands development will consist of a varied mix of residential, commercial, recreational and educational development with supporting infrastructure. The proposed infrastructure improvements include new levee construction and existing levee reconstruction, construction and preparation of “high ground,” a lake and other water quality/detention facilities, as well as roadways, bridges, sanitary sewer, storm drains, domestic water and utility improvements.

As currently planned, drainage facilities to be maintained by the GHAD include:

- Water quality wetlands
- Bioretention basins
- Storm drain facilities
- The proposed lake, and Paradise Cut and associated backwaters.

GHAD responsibilities, subject to the limitations of the Plan of Control, include:

- Proactive maintenance
- Assessment, repair and replacement of flood control facility improvements (including vegetation control and armoring of channels)
- Slope maintenance and de-sedimentation of facilities

Newhall Ranch GHAD—Los Angeles County, CA

ENGEO has provided on-going consultation services for the Newhall Ranch GHAD project since mid-2007. The project, located in Los Angeles County, is subject to several geotechnical and geologic constraints. To effectively manage these constraints, ENGEO was retained by the project proponent to perform a GHAD feasibility analysis for the proposed development. The analysis included the preparation of a comprehensive preliminary budget, review of alternative management entities, and the preparation of a “white paper” comparative analysis to assess the relative efficacy of GHAD formation as compared with other maintenance entity alternatives. ENGEO determined that a GHAD is not only feasible for the project, it is the optimal choice for a maintenance entity. ENGEO will continue to provide consulting services, including Plan of Control and Engineer’s Report preparation, assistance with other formation-related documentation, and comprehensive budgetary analysis.



3.0 GHAD EVALUATION

3.1 BACKGROUND

The Santiago GHAD was formed in 1999 in effort to manage and maintain the dewatering system installed after the 1993 Santiago Landslide. Funding for the Santiago GHAD is unique in the fact that the GHAD is currently funded by settlement monies with no additional revenue from property assessment, as typical of other GHADs.

ENGEO has assisted with the management of the Santiago GHAD starting in 2017, and was appointed as GHAD Manager in 2018. As GHAD Manager, ENGEO has prepared an addendum to the original Santiago GHAD Plan of Control, assisted with the election of the current GHAD Board of Directors, prepared a Proposition 218 assessment vote to fund the operations of the GHAD, and implemented an annual fiscal year budget for management and maintenance of the GHAD.

3.2 MANAGEMENT OF SANTIAGO GHAD

The highest priority of the GHAD Manager is to help provide for the continued long-term operation of the production dewatering wells to prevent reactivation of the Santiago landslide. To accomplish this, we recommend:

- Continued efforts to obtain additional funding for current and longer-term needs of the GHAD from within the District and as available, outside sources.
- Promote knowledge and understanding of the existence and function of the Santiago GHAD with property owners in the District.
- Provide the GHAD Board of Directors support in their activities related to technical and financial operation of the GHAD including budgets and longer-term capital improvements.
- Provide for proper election procedure for Boardmembers in the November 2020 election.
- Maintain the Santiago GHAD website to allow for homeowner participation in the GHAD.

We acknowledge that we have reviewed the References listed in the Request for Qualifications dated April 24, 2020 including:

- Fiscal Year 2019-2020 Budget
- Plan of Control
- Background Documents

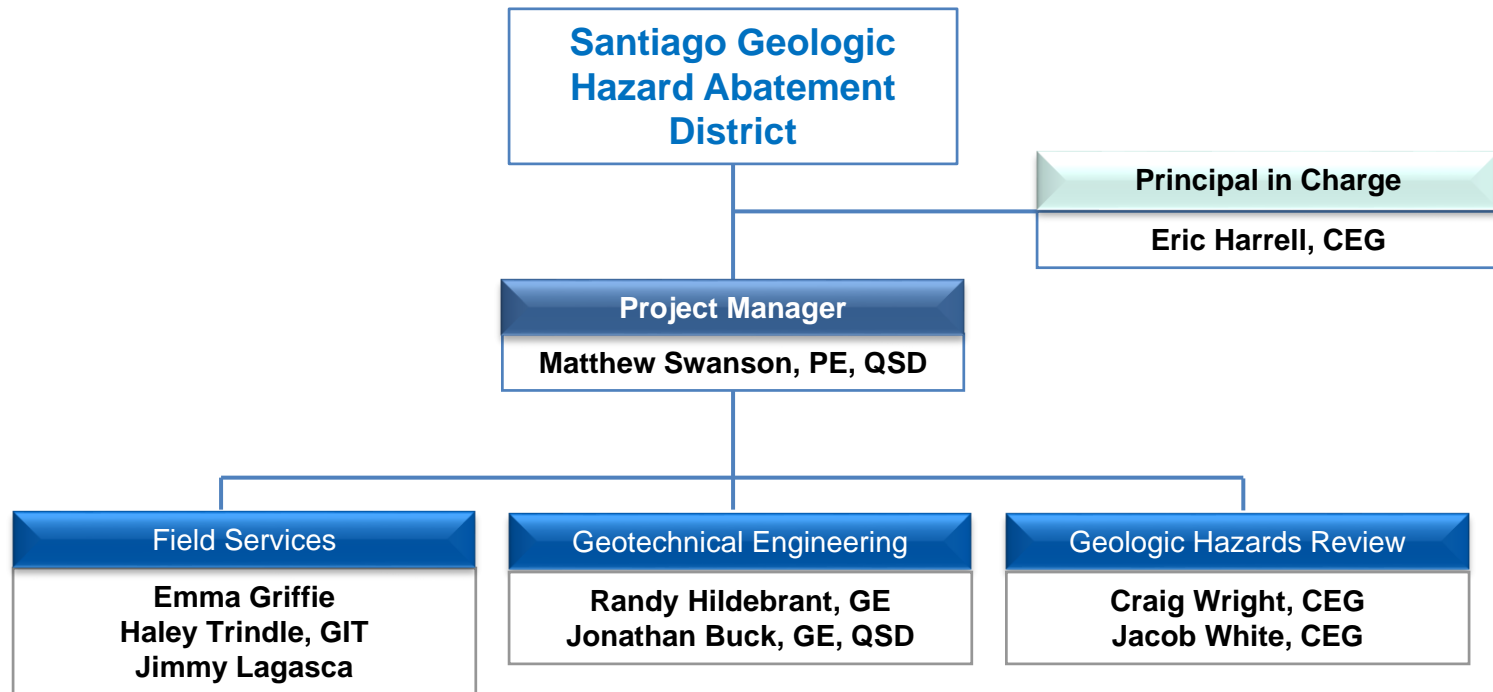
4.0 SCHEDULE & BUDGET

ENGEO understands the importance of due dates and deliverables. Our group understands it is more than a promise; it is a matter of personal pride and professionalism as well as an important step toward the success of the GHAD. It is our commitment to have open communication with the GHAD Board, manager, engineer, treasurer, and clerk, and to meet, or exceed, any specified due date. This approach provides an ongoing understanding of priorities and smooth adaption to any changes. We maintain a flexible staff and have available resources to ensure responsiveness and quality.

With regard to meeting GHAD schedules, we have been managing GHADs since 2005 and this involves due dates for annual budgets, assessment rolls, site monitoring events, and repair projects. ENGEO is successful at meeting these deadlines. Annual budgets are submitted in April for the following fiscal year starting July 1 of each year. We have met the GHAD Board of Directors' due dates for budgets for each of the past 9 years.

If approved, we have also prepared an updated assessment limit and assessment roll for each fiscal year for each GHAD. The assessment rolls have been submitted prior to the County Assessor's due date. The GHAD Plan of Control specifies monitoring requirements for each GHAD. We have been meeting the Plan of Control recommendations for these monitoring events.

TEAM ORGANIZATION CHART



5.2 RESUMES



EDUCATION

BS Civil Engineering University of California, Berkeley 1981

EXPERIENCE

Years with ENGEO: 34

Years with Other Firms: 5

REGISTRATIONS & CERTIFICATIONS

Professional Engineer, CA 39522
Exp. 12/31/2021

Geotechnical Engineer, CA 2166
Exp. 12/31/2021

Uri Eliahu, GE | President

As President of ENGEO, Uri promotes technical excellence and extraordinary client service throughout the firm. Under his leadership, ENGEO has become California's consultant of choice for master-planned, mixed-use development, large-scale earthwork, transportation, urban infill and redevelopment of Brownfields, industrial sites and military bases. Uri is a Civil Engineering graduate from the University of California at Berkeley, and is a Registered Geotechnical Engineer in California and a Registered Civil Engineer in California and Nevada. He is a Founding Director of the California Association of Geologic Hazard Abatement Districts (GHADs) and its current President.

Uri has evolved into a leading expert on entitlement and regulatory permitting processes. During his career, Uri has lent his expertise to a wide range of complex projects in a number of settings. He has developed and fostered close relationships with a number of decision-making officials in many local, state, and federal jurisdictional agencies. Although some of these projects have included a range of contentious or controversial issues, he has consistently been able to deftly navigate potentially prohibitive technical and political constraints, resulting in timely, cost effective delivery of project entitlements. Uri is a trusted advisor to a vast group of public and private clients and colleagues.

- **Fallon Village**, Dublin, CA, *President Oversight*
- **Gale Ranch**, San Ramon, CA, *President Oversight*
- **Hunters Point Shipyard Redevelopment, 'Parcel A'**, San Francisco, CA, *President Oversight*
- **Mare Island - Geotechnical Consultation**, Vallejo, CA, *President Oversight*
- **Oakhurst Slope Stabilization Consultation**, Clayton, CA, *President Oversight*
- **Palos Colorados Geotechnical Services**, Moraga, CA, *President Oversight*
- **Potrero Canyon**, Newhall Ranch, CA, *President Oversight*
- **Reclamation District 17 Levee Evaluation**, Lathrop, CA, *President Oversight*
- **River Islands Phase 2 Levee Evaluation**, Lathrop, CA, *President Oversight*
- **Wendt Ranch**, Danville, CA, *President Oversight*
- **Windemere Parkway Bridge**, San Ramon, CA, *President Oversight*

**EDUCATION**

BS, Geology, Humboldt State University, 1982

EXPERIENCE

Years with ENGEO: 32

REGISTRATIONS & CERTIFICATIONS

Certified Engineering Geologist, CA, 2189, Exp. 8/31/2021
Professional Geologist, CA, 6909, Exp. 8/31/2021

Eric Harrell, CEG | Principal in Charge

Eric joined ENGEO in 1988 and has extensive experience as a Geologist and as a Manager for Geologic Hazard Abatement Districts (GHADs). Eric is involved with the formation, annexation, and management of Geologic Hazard Abatement Districts (GHADs) in Contra Costa, Alameda, Solano Counties and Ventura. He prepares Plans of Control, Engineer's Reports, budgets, and resolutions for the formation and annexation of GHADs. He is also responsible for the day-to-day management of six GHADs which includes budgeting, contracting, monitoring, maintaining, and repairing activities.

- **Santiago GHAD**, Anaheim, CA *Principal*
- **Schaefer Ranch**, Dublin, CA *GHAD Services Consultant*
- **Fallon Village GHAD**, Dublin, CA *GHAD Services Consultant*
- **Santa Paula GHAD** Santa Paula, CA *GHAD Manager*
- **Blackhawk GHAD Piezometer/HD Monitoring**, Danville, CA *Project Manager*
- **Wiedemann Ranch GHAD**, Contra Costa County, CA *GHAD Manager*
- **Leona Quarry GHAD**, Oakland, CA *GHAD Manager*
- **Orinda GHAD**, Orinda, CA *GHAD Manager*
- **Wendt Ranch GHAD**, Contra Costa County, CA *GHAD Manager*
- **Oakland Area GHAD**, Oakland, CA *GHAD Manager*

**EDUCATION**

BS Civil Engineering San Jose State University 2010

Matthew Swanson, PE, QSD | Project Manager

Matt leads ENGEO's Irvine office providing geotechnical, water resources, and environmental engineering services. He has been involved in numerous projects throughout California. Matt specializes in evaluating and reporting earthwork grading and improvements, testing and observation, foundation design, geotechnical explorations, and levee analysis.

- **Heritage Fields**, Irvine, CA, *Project Manager*
- **Santiago GHAD**, Anaheim, CA, *Project Manager*
- **Shadow Hawk II**, Ripon, CA, *Staff Engineer*
- **Capistrano at Oak Hills**, Pittsburg, CA, *Field Engineer*
- **Evergreen - Zone 3, Fourth Reservoir**, San Jose, CA, *Field Engineer*
- **Henry Ranch**, San Ramon, CA, *Field Engineer*

Diploma Civil and Structural
Engineering Technology British
Columbia Institute of Technology 2001

EXPERIENCE

Years with ENGEO: 19

REGISTRATIONS & CERTIFICATIONS

Professional Engineer, CA 74435
Exp. 9/30/2021

CASQA QSD Certified, CA 26464
Exp. 9/10/2021



EDUCATION

MS Geotechnical Engineering UC
Berkeley 2010

BS Civil Engineering Cal Poly San Luis
Obispo 2009

EXPERIENCE

Years with ENGEO: 10

REGISTRATIONS & CERTIFICATIONS

Professional Engineer, CA 79940
Exp 9/30/2020

Geotechnical Engineer, CA 3090
Exp 9/30/2020

- **Neighborhood H, Umbria, PT-Plan Review**, Mountain House, CA, *Project Manager*
- **River Islands Bradshaw's Crossing Bridge**, Lathrop, CA, *Project Engineer*
- **River Islands Phase 2 Levee Evaluation**, Lathrop, CA, *Project Engineer*
- **Sangha Residence, Lot 10, Peters Ranch Estates**, Danville, CA, *Field Engineer*
- **Evergreen View**, San Jose, CA, *Field Engineer*

Randy Hildebrant, GE | Associate

Randy joined ENGEO in 2010 and serves a variety of private and public works projects including transit stations; mass grading; arenas, port and harbor facilities; commercial and residential developments; landslide evaluation and stabilization; bridges; schools; and forensic geotechnics. His design experience includes the analysis and mitigation of liquefaction potential; design of reinforced earth retaining wall systems; design of shallow and deep foundations; pavement analysis; and groundwater modeling. He routinely serves all tasks of the project, including the field exploration, analysis and design, technical report preparation, consultation during construction, and project management.

- **City of Brentwood Pipeline - O'Hara Ave to Hwy 4 Bypass Road**, Brentwood, CA, *Staff Engineer*
- **Dougherty Road Improvements**, Dublin, CA, *Project Manager*
- **Eden Commons**, Hayward, CA, *Staff Engineer*
- **Kingdom Hall Off-Site**, Brentwood, CA, *Project Manager*
- **Residential Area 8W**, Vallejo, CA, *Staff Engineer*
- **Mare Island Causeway Repair**, Mare Island, Vallejo, CA, *Project Manager*
- **SWPPP Erosion Control Monitoring & Reporting**, Vallejo, CA, *Staff Engineer*
- **Monarch Dunes - Phase 2B**, Nipomo, CA, *Project Manager*
- **Mountain House Neighborhood L**, Tracy, CA, *Staff Engineer*
- **Newhall Ranch**, Newhall Ranch, CA, *Staff Engineer*
- **River Islands Bradshaw's Crossing Bridge**, Lathrop, CA, *Staff Engineer*
- **Treasure Island Sub- Phase 1A Geotechnical Services**, San Francisco, CA, *Project Engineer*
- **Wilder (formerly Orinda Gateway)**, Orinda, CA, *Staff Engineer*

**EDUCATION**

BS, Civil Engineering, Arizona State University, 2001

BS, Urban Planning, Arizona State University, 1992

MS, Civil Engineering, Arizona State University, 2002

EXPERIENCE

Years with ENGEO: 18

Years with Other Firms: 5

REGISTRATIONS & CERTIFICATIONS

Geotechnical Engineer, CA, 2958, Exp. 9/30/2020

Professional Engineer, CA, 67302, Exp. 9/30/2020

LEED AP, CA

CASQA QSD Certified, CA, 00230

CASQA QSP Certified, CA, 00230

Nuclear Gauge Operator, CA, 14622

Jonathan Buck, GE, QSD | Associate

Jon joined ENGEO in 2002 with and has 23 years of experience in the industry related to geotechnical and water resources engineering. He specializes in creek stabilization and restoration, stormwater and erosion control management, geotechnical feasibility of earth dams and engineered slopes, deep foundation systems for bridge structures, hydrologic analysis of watersheds and wetlands, and complex permitting and regulatory issues.

- **Schaefer Ranch**, Dublin, CA *Project Engineer*
- **Jordan Ranch Final SWMP**, Dublin, CA *Project Manager*
- **Moller Ranch (Casamira Valley)**, Dublin, CA *Project Manager*
- **Moller Ranch Geotechnical Exploration**, Dublin, CA *Project Engineer*
- **Yerba Buena Island Transit Structure #1**, Yerba Buena Island, CA *Project Manager*
- **Alamo Creek - Storm Water Management**, Danville, CA *Project Engineer*
- **Gale Ranch, Phase III – Hydraulics**, San Ramon, CA *Project Manager*
- **Leona Quarry - SWPPP and Erosion Control Plan Update**, Oakland, CA *Project Manager*

**EDUCATION****Craig Wright, CEG | Associate**

Craig has experience working on and managing a large number of geotechnical and geological projects both here and overseas. He has provided geotechnical consultation, project management, field mapping, fault and landslide investigations, geotechnical hazard analyses, stormwater monitoring, and geotechnical instrumentation installation and monitoring services for more than 16 years. He delivers practical and pragmatic solutions to each unique project and keeps open and honest communication, ensuring his clients are informed every step of the way.

- **7 Country Oak Lane**, Alamo, CA, *Project Manager*
- **Alamo Gardens, Lot 11**, Alamo, CA, *Project Manager*

BS Professional Geology - With Honors
University of Montana 2003

EXPERIENCE

Years with ENGEO: 16

REGISTRATIONS & CERTIFICATIONS

Professional Geologist, CA 8548
Exp 1/31/2021

Certified Engineering Geologist, CA
2563, Exp 1/31/2021

- **Alamo Summit - Storm Water Sampling**, Alamo, CA, *Project Manager*
- **Black Diamond Ranch - Water Sampling and Testing**, Antioch, CA, *Project Manager*
- **Castro Ranch Supplemental LHD Borings**, Richmond, CA, *Project Geologist*
- **ERSB Land Planning & Quarry Reclamation**, Hollister, CA, *Field Geologist*
- **Ersted Property - Supplemental Fault Exploration**, Hayward, CA, *Field Geologist*
- **Freitas Ranch - Geotechnical exploration**, San Ramon, CA, *Project Geologist*
- **Mercy/Related HOPE SF Sunnydale-Velasco Housing**, San Francisco, CA, *Project Geologist*
- **Newell Property**, American Canyon, CA, *Project Manager*
- **North Village Unit 6**, Vacaville, CA, *Project Manager*
- **Potrero Block X**, San Francisco, CA, *Project Geologist*
- **Schaefer Ranch**, Dublin, CA, *Project Geologist*
- **Sheridan Road Caltrans Landslide Repair**, Oakland, CA, *Senior Geologist*



Jacob White, PG | Senior Geologist

Jacob joined ENGEO in April of 2005. His duties include geologic mapping and field reconnaissance, field exploration, geotechnical report development, geotechnical feasibility studies, monitoring of field instrumentation and providing recommendations during the remedial grading process.

- **Jordan Ranch**, Dublin, CA *Project Geologist*
- **Crystyl Ranch**, Concord, CA *Project Geologist*
- **San Ramon GHAD**, San Ramon, CA *Field Geologist*
- **Wendt Ranch GHAD**, Danville, CA *Field Geologist*
- **Sea Ranch Water Tank**, Sea Ranch, CA *Project Geologist*
- **San Marco Villas**, Pittsburg, CA *Staff Geologist*

EDUCATION

BS, Geology, California State
University East Bay

EXPERIENCE

Years with ENGEO: 15

REGISTRATIONS & CERTIFICATIONS

Certified Engineering Geologist, CA
2671, Exp. 8/31/2020

Professional Geologist, CA, 9111, Exp.
8/31/2020

Nuclear Gauge Operator, CA, 44071

**EDUCATION**

BS Geological Sciences California
State University Fullerton 2017

EXPERIENCE

Years with ENGEO: 1

REGISTRATIONS & CERTIFICATIONS

24 Hour HAZWOPER Training, CA
2002092316634

40 Hour HAZWOPER Training, CA
2003261316634

Emma Griffie | Staff Geologist

Emma is experienced in supporting water well design and construction by providing formation sampling, preparing detailed formation logs, aquifer zone isolation testing, and interpreting geophysical logs to identify and characterize aquifers and aquitards. She supported the design of deep nested monitoring wells instrumental to the water quality monitoring required to operate the Mid-Basin Injection wells in central Orange County Groundwater Basin. She supported the construction, design, and development of the two Sunset Gap Project clustered monitoring wells. Emma provides oversight and documentation of well construction, development and testing. She also provides oversight and direction during well rehabilitation including chemical treatment, redevelopment, and pumping tests. She has provided oversight of well discharges to ensure compliance with NPDES discharge requirements. Emma supports the environmental analysis and impact assessment for EIRs including oil field revitalization. She has experience in geotechnical and continuous rock core logging and sampling, and identifying samples for laboratory sampling.

- **City of Beverly Hills Well No. 2, 4, 6 Rehabilitation**, Beverly Hills, CA, *Staff Geologist*.
- **City of Beverly Hills Well No. 5 Rehabilitation**, Beverly Hills, CA, *Staff Geologist*.
- **CM Services Mid-Basin Injection Well**, Santa Ana, CA, *Staff Geologist*
- **Construction Management for SAR-13**, Santa Ana, CA, *Staff Geologist*
- **Mesa Well Automation Project: Field Services Well Automation**, Costa Mesa, CA, *Staff Geologist*
- **Mel Leong Design Support**, South San Francisco, CA, *Staff Geologist*
- **Corona As-Needed Hydrogeologic Services, New Home Gardens Area Supply Well Project (Wells 32 & 33)**, Corona, CA. *Staff Geologist*
- **OCWD Sunset Gap Monitoring Well Project**, Seal Beach, CA, *Staff Geologist*

**EDUCATION**

BS, Earth Sciences, University of California Santa Barbara, 2016

EXPERIENCE

Years with ENGEO: 3

REGISTRATIONS & CERTIFICATIONS

Geologist in Training CA, 990
Nuclear Gauge Operator, CA, 18553

Haley Trindle, GIT | Staff Geologist

Haley is a staff geologist at ENGEO primarily focused on Geologic Hazard Abatement Districts (GHADs) monitoring and management. Haley has been involved with the formation, annexation, and management of Geologic Hazard Abatement Districts (GHADs) in Alameda, Contra Costa, Orange, and Ventura Counties. She assists with preparation of Plans of Control, Engineer's Reports, budgets, and resolutions for the formation and annexation of GHADs. She also assists with the day-to-day management of 12 GHADs which includes budgeting, contracting, monitoring, maintaining, and repairing activities.

Her technical experience includes project management, permitting, characterization and logging of geologic samples to determine subsurface soil and rock conditions, geologic hazard identification and classification, monitoring subdrain outlets, piezometers, inclinometers, and settlement instruments. Haley has assisted with report writing, plan reviews, and slope instability repair plans. Additionally, she has experience with applications of Geographic Information Systems (GIS) and unmanned aircraft systems (UAS) surveys. She has worked with several disciplines and agencies throughout multiple projects that require cross-discipline coordination and cooperation.

- **Santiago GHAD**, Anaheim, CA *Staff Geologist*
- **Santa Paula GHAD**, Santa Paula, CA *Staff Geologist*
- **Blackhawk GHAD Horizontal Drain and Piezometer Monitoring**, Blackhawk, CA *Staff Geologist*
- **Leona Quarry GHAD**, Oakland, CA *Staff Geologist*
- **Wendt Ranch GHAD**, San Ramon, CA *Staff Geologist*
- **Wiedemann Ranch GHAD**, San Ramon, CA *Staff Geologist*

**EXPERIENCE**

Years with ENGEO: 16

REGISTRATIONS & CERTIFICATIONS

Nuclear Gauge Operator, CA 14981

Radiation Safety Officer, CA 17561

Jimmy Lagasca | Construction Services Manager

Jimmy specializes in large-scale residential projects with extensive mass grading as well as in-fill projects, utility trench backfill, street construction, retaining wall construction, and select special inspection services. Jimmy further specializes in pavement rehabilitation projects, including subgrade soil stabilization, utilization of geotextile stabilizations products, and hot mix asphaltic (HMA) batch plant inspection and HMA placement, compaction and testing according to Caltrans and ASTM specifications. In addition, he performs GPS measurements for remedial grading items during construction and SWPPP/BMP monitoring, stormwater sampling and reporting services according to SWRCB Order No. 2009-009 DWQ.

- **Mission Village**, Valencia, CA, *Construction Services*
- **Heritage Fields**, Irvine, CA, *Construction Services*
- **East Garrison Development, Fort Ord**, Carmel, CA, *Construction Services*
- **Enclave (Grant Road)**, Mountain View, CA, *Construction Services*
- **Evelyn Glen**, Sunnyvale, CA, *Construction Services*
- **Metcalf Rd Property**, San Jose, CA *Construction Services*

6.0 REFERENCES

Ms. Teri Rie, PE
Contra Costa County, Associate Civil Engineer
(925) 313-2363
teri.rie@pw.cccounty.us

Ms. Patricia Curtin
Wendel Rosen, LLP
(510) 834-6600
PCurtin@wendel.com

Mr. Robin Bartlett
District Engineer/Division Manager, Public Works Department
City of San Ramon
925.973.2683
rbartlett@sanramon.ca.gov

Mr. Loren Taylor
Oakland Council Member, District 6
Chair Leona Quarry and Oakland Area GHAD Board of Directors
(510) 238-7006
LTaylor@oaklandca.gov

7.0 ACKNOWLEDGEMENT OF GHAD CONTRACT POLICY

We acknowledge and accept the GHAD Manager Agreement including the insurance requirements.

8.0 PROPOSED FEES

Our fee estimate and Preferred Client Fee Schedule for Professional Services, Effective March 2020 are included in a separate sealed envelope for consideration after selection of the most qualified consultant.





Statement of Qualifications Santiago GHAD Groundwater Monitoring and Consultation Services Anaheim, California



PREPARED BY:
ENGEO Incorporated

May 28, 2020

PROJECT NO.
P2020.001.021

SUBMITTED TO:
Santiago GHAD Board of
Directors
Attention: Matthew Swanson
GHAD Manager
320 Goddard Way, Suite 100
Irvine, CA 92618
mswanson@engeo.com

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Project No.
P2020.001.021

May 28, 2020

Santiago GHAD Board of Directors
Attention: Matthew Swanson, GHAD Manager
320 Goddard Way, Suite 100
Irvine, CA 92618

Subject: Statement of Qualifications for GHAD Groundwater Monitoring and Consulting
Services
Anaheim, California

COVER LETTER

Dear Santiago GHAD Board of Directors,

ENGEO provides environmental services, stormwater consulting including surface and groundwater monitoring, geotechnical design, laboratory testing, special inspections, and earthwork testing, under numerous public contracts. As you are aware, ENGEO has been working with the Santiago GHAD Board of Directors for the past 3 years on the Santiago GHAD and we remain committed to your success. With our stated experience, we believe we can add tremendous value to achievement of your project goals. The benefits of choosing ENGEO include:

- ENGEO has provided monitoring services for the Santiago GHAD over the past year, studying the system and piloting a program to optimize system investments
- ENGEO has pioneered a web based cloud site and GIS system for the Santiago GHAD to increase information accessibility to constituents and transparency with the public
- During monitoring events, multiple ENGEO representatives has interfaced with residents, promoting the importance of the Santiago GHAD and educating the public of its function
- Our engineers and geologists are proven experts in slope stability and geologic hazard monitoring and mitigation
- ENGEO currently provides management and engineering services for 10 GHADs including: Moraga, Hayward, Wiedemann Ranch, Wendt Ranch, Orinda, Leona Quarry, Oakland Area, Santa Paula, Santiago, and Broad Beach.
- With more than 300 engineers and geologists on staff, you will receive an unsurpassed level of service and accountability.

Our approach to serving you will involve our in-house team of geologists, engineers, and field staff, who will monitor conditions at each site and advise you as to any recommended actions. We are pleased to be of service and welcome any questions you may have. ENGEO has reviewed the "Online References" in preparation for this SOQ.

Sincerely,

ENGEO Incorporated



Matthew Swanson, PE, QSD
Associate and Project Manager



Eric Harrell, CEG – authorized to bind contractually
Principal

2.0 QUALIFICATIONS AND EXPERIENCE

2.1 COMPANY OVERVIEW

ENGEO has more experience in GHAD policy development, law and management than any other firm. In our nearly 50 years of experience, ENGEO has been involved in the vast majority of the GHADs in California. With a staff of registered Geotechnical Engineers and Certified Engineering Geologists that is second to none, and with over 500 combined years of specific, related experience, Geologic Hazard Abatement Districts represent a core business for ENGEO.



ENGEO is an employee-owned firm of more than 300 geotechnical and civil engineers, geologists, hydrologists and environmental scientists, as well as a large construction services QA/QC team. ENGEO has served many local agencies with the design and construction of new water supply wells, monitoring wells, and routine groundwater and surface water monitoring and reporting. Founded in 1971, we have offices located throughout California.

ENGEO serves projects in transportation, infrastructure, water resources, geologic hazards, flood control, critical facilities, residential and mixed-use communities, urban infill, Brownfields and transit oriented developments. We assist in every phase of project development from the due diligence for land use acquisition and planning through entitlement, permitting, design, construction and project build-out. We actively participate in the engineering and construction of large-scale master-planned, mixed-use developments, including associated infrastructure.

2.2 GEOLOGIC HAZARD ABATEMENT DISTRICTS

The Beverly Act of 1979 and the enabling statute (Division 17 of the Public Resources Code, Sections 26500-26654) provided for the formation of a local assessment district for the purpose of prevention, mitigation, abatement or control of geologic hazards. ENGEO has been involved in the development, implementation, and monitoring of the majority of Geologic Hazard Abatement Districts (GHAD) since their inception. ENGEO is serving as the GHAD Manager for numerous GHADs including Moraga, Hayward, Santiago, Wiedemann Ranch, Wendt Ranch, Orinda, Broad Beach, Santa Paula, Leona Quarry and Oakland Area.



ENGEO developed the first Geologic Hazard Abatement District in Northern California and the first GHAD to be applied to a new development, leading the implementation and monitoring of this GHAD, and developing best practices for other GHADs throughout the state.

ENGEO President Uri Eliahu, GE, is a Founding Director and President of the California Association of GHADs. Mr. Eliahu coordinated the establishment of most of California's Geologic Hazard Abatement District properties, including the largest GHADs in the state. In all, he has overseen the formation of more than 25 GHADs.

Our long experience with the terrain and geologic conditions in the region makes it possible for us to provide uniquely insightful and cost-efficient solutions for geologic hazard abatement. With nearly 50 years of accumulated data on thousands of landslides, stabilization schemes and other practices, we have vast knowledge of the region's geologic conditions and are experts at mitigation designs that are practical and reliable in achieving the protection of public safety.

ENGEO is the leader in GHAD education, development of best practices and legislative activity. We have presented many GHAD workshops and symposia. We have developed several comprehensive presentations customized for various audiences and have delivered GHAD presentations to many legal, political and industry associations, and public agencies including:

- Central Valley Flood Protection Board
- State of California Department of Water Resources
- State of California Reclamation Board
- County of Los Angeles
- City of Los Angeles
- City of Mission Viejo
- City of Laguna Beach
- City of Santa Paula
- City of Milpitas
- City of Anaheim
- City of Brentwood
- City of Hayward
- Contra Costa County
- City of San Ramon
- City of Oakland
- City of San Francisco
- City of Fairfield
- City of Hercules
- Town of Danville
- City of Millbrae
- City of San Leandro
- San Mateo County
- Town of Moraga
- City of Lathrop

2.3 HYDROGEOLOGIC SERVICES

ENGEO provides a variety of hydrogeologic services including well design, siting, and rehabilitation, aquifer analysis, water quality sampling, subsidence studies, liquefaction, and groundwater modeling. In addition, ENGEO provides surface hydrology services and our knowledge and relationships with multiple public and government agencies help projects progress smoothly and stay on schedule. Hydrogeologic and hydrology services include:

- Groundwater Sampling and Monitoring
- Surface water Sampling and Monitoring
- Hydrologic balance evaluations
- Well siting/design
- Well rehabilitation
- Field operations and support
- Well construction oversight and management
- Water quality assessments
- Water supply assessments

2.4 SELECT PROJECT EXPERIENCE

Santiago GHAD—Anaheim, CA

The Santiago Geologic Hazard Abatement District (GHAD) was formed in 1999 by the Anaheim City Council to stabilize past, present, and future land movement of the active Santiago landslide. In the time period stretching from the summer of 1992 to the spring of 1993, movement of the Santiago landslide was triggered by high groundwater, causing damage to homes, streets, and associated infrastructure. Since 1993, stabilization of the Santiago landslide has been accomplished by continual removal of groundwater through actively pumping wells and horizontal drains within the limits of the Santiago GHAD, which includes 303 residences. ENGEO has been the manager for the Santiago GHAD since July 2017.

ENGEO has been providing monitoring services for the Santiago GHAD since the spring of 2019. Our role as the monitoring consultant consists of the quarterly monitoring of 42 groundwater monitoring wells, semi-annual condition observations and flow measurements of 87 horizontal drains, and annual monitoring for 10 vertical inclinometers. Additionally, there are 38 vertical dewatering wells onsite; we work closely with the pump contractor to confirm the successful operation of these wells, monitoring and reporting groundwater pumping volumes. Following each monitoring event we publish our data on the Santiago GHAD's website and through an online GIS portal and a cloud based server. The GIS portal allows members of the community to have access to the monitoring data rapidly after it is collected. We have found this platform is a digestible and readily accessible summary of our activities for the residents within the GHAD.

Santa Paula GHAD—Santa Paula, CA

The Santa Paula GHAD was formed in 2008 and ENGEO has been serving as the GHAD Manager for the Santa Paula GHAD since 2014, as the parcels within the GHAD were beginning to be transferred to the GHAD. The Santa Paula GHAD includes 75 single family residences in addition to open space areas that are owned by the GHAD. ENGEO prepared the Plan of Control, Engineer's Report and budget for the GHAD formation. The members of the Santa Paula City Council act as the Board of Directors. ENGEO has monitored and maintained the GHAD-owned and GHAD-maintained improvements within the Santa Paula GHAD since acceptance of the improvements in 2016.

Broad Beach GHAD—Malibu, CA

ENGEO was the lead consultant in the formation of the Broad Beach GHAD and has been the manager since 2011. The high-profile beach restoration adjacent to multi-million dollar residential properties required an innovative solution for an entity that could monitor and maintain beach-related improvements in perpetuity. ENGEO was retained to explore the legal, technical, and financial applicability, working closely with property owners, legal counsel, the City of Malibu, and other project stakeholders to create an appropriate structure and scope of responsibility. In addition to the monitoring and mitigation of beach erosion, the GHAD is also responsible for the following:

- Periodic inspection of a rock revetment structure
- Inspection and maintenance of restored dunes and habitat
- Inspection and maintenance of beach drainage facilities

In preparing the key GHAD documents, including the Plan of Control and the Engineer's Report, ENGEO carefully assessed critical geotechnical and geologic hazards associated with the project, including erosion, liquefaction and seismicity, slope stability, and tsunami-related risks. Additionally, ENGEO prepared a comprehensive budget and related long-term cash flow sensitivity analysis to determine an appropriate and prudent assessment level for the property owners.

Newhall Ranch GHAD—Los Angeles County, CA

ENGEO has provided on-going consultation services for the Newhall Ranch GHAD project since mid-2007. The project, located in Los Angeles County, is subject to several geotechnical and geologic constraints. To effectively manage these constraints, ENGEO was retained by the project proponent to perform a GHAD feasibility analysis for the proposed development. The analysis included the preparation of a comprehensive preliminary budget, review of alternative management entities, and the preparation of a "white paper" comparative analysis to assess the relative



efficacy of GHAD formation as compared with other maintenance entity alternatives. ENGEO determined that a GHAD is not only feasible for the project, it is the optimal choice for a maintenance entity. ENGEO will continue to provide consulting services, including Plan of Control and Engineer's Report preparation, assistance with other formation-related documentation, and comprehensive budgetary analysis.

Cluster Monitoring Wells–Seal Beach, CA

The Sunset Gap Monitoring Well Project, located at the Seal Beach Naval Weapons Station in Seal Beach, California, follows previous Orange County Water District (OCWD) well construction projects to install nested and single bore monitoring wells in Sunset Gap, where seawater intrusion into potable aquifers is occurring. The new wells provide aquifer-specific monitoring points in shallow to deep aquifers (90 to 565 feet) that are closer to the coast line and near the Newport Inglewood Fault and Huntington Harbor Marina where dredged channels may have breached the natural aquitard and created a pathway for seawater intrusion.



Routine water level monitoring consisted of collecting weekly and monthly readings to identify tidal influence and establish baseline trends. Field services included monitoring field water quality, water quality sampling, and monitoring of water disposal in accordance with NPDES discharge requirements. Water level and water quality data were summarized in reports submitted to the local water agency (OCWD).

Mid-Basin Injection Project–Santa Ana, CA

The Mid-Basin Injection project (MBI) is part of the Orange County Water District's (OCWD) network of groundwater recharge operations in deep aquifers within the central part of the basin. Part of this project included the design and construction of two deep nested monitoring wells. These wells, in concert with previously constructed monitoring wells, are used to monitor and track Groundwater Replenishment System (GWRS) water after it has been injected into the Main aquifer.



ENGEO regularly collected static groundwater measurements and sampled each well casing to determine aquifer-specific background water quality and groundwater depth. After construction of the new MBI wells, ENGEO continued to regularly collect groundwater levels during extraction testing periods, and collect groundwater samples to determine aquifer-specific water quality. ENGEO was also responsible for the oversight of drilling, formation sampling, design, construction, development, and testing of four deep injection wells for the MBI project.

El Rancho San Benito—San Benito County, CA

This 4,000 acre property is located in northern San Benito County. Developable terrain is relatively flat, and existing improvements include farm compounds on the western edge of the site borders Pajaro River. The planned project includes at least 5,000 residential units, emergency response, several million square feet of commercial/retail/office, K-12 schools, onsite wastewater treatment facility, and associated infrastructure. The improvements will also include a highway interchange and bridges to cross over existing jurisdictional drainage courses and rivers.



Between 2003 and 2008, and as part of the project's stormwater management and water quality assessment and design, ENGEO installed and monitored two weather stations and four ISCO Automated Samplers within existing drainage channels of the project area. In addition, ENGEO performed monitoring and sampling at up to ten manual grab sample locations distributed around the project including two locations within the adjacent, downgradient Pajaro River. The automated and grab sampling locations were strategically located to capture water entering into the site and water leaving the site into the bordering Pajaro River. The data and samples collected and laboratory test results were used to assess pre-development stormwater quality conditions as it passes through the site in order to design for post-development water quality objectives. In addition, over 30 standpipe piezometers were monitored for static groundwater fluctuations and were used to assess groundwater quality.

Rehabilitation of Wells 1, 3, 5, and 7—Costa Mesa, CA

ENGEO staff developed the well rehabilitation plan for four large diameter high-capacity municipal supply wells and provided oversight during the chemical cleaning, redevelopment, and testing of each well. Reduced well performance lead to video inspection of each well that revealed considerable biofouling. Chemical cleaning consisted of acid treatment followed by chlorine disinfection, redevelopment by double swab airlifting, and finally pumping development. Persistent fine sand was produced by the two oldest wells and was managed by identifying the maximum recommended pumping rate and assisting the owner to develop procedures for slow pumping rate increases during startup and infrequent well shutdown. Pumping tests were performed to verify specific capacity of each well following the cleaning. Specific capacity was improved in each of the 20 to 40 year old wells and approached the original capacities measured when the wells were new.

**Blackhawk GHAD—Contra Costa County, CA**

This is the first GHAD in Northern California and the first GHAD to be applied to a new development. ENGEO has led the formation, implementation and monitoring of this GHAD since the mid-1980s. ENGEO has provided on-going monitoring services for this GHAD in accordance with the Plan of Control. ENGEO has accumulated nearly 30 years of geotechnical and other site data for the Blackhawk community. Our services have included:

- Extensive engineering analyses, designs and recommendations
- Geologic consultation and numerous repair recommendations
- Development of instrumentation monitoring and bi-annual reconnaissance to observe and report the general conditions of the slopes adjacent to the development
- Assessment of conditions of site drainage in the open space and common areas
- Preventive maintenance and operations
- Initial incident response and evaluation
- Inclinator measurements not related to on-going projects
- Data collection and maintenance of GHAD weather station
- Aerial photography review
- General consultation on landslide and erosion hazards, analysis and mitigation schemes
- Conducting public meetings with GHAD representatives, homeowners and/or the Blackhawk homeowners association.

Canyon Lakes GHAD—San Ramon, CA

ENGEO has led the implementation and monitoring of this GHAD since its inception in 1986. ENGEO has provided on-going monitoring services for this GHAD in accordance with the Plan of Control. Our services have included:

- Extensive engineering and geologic consultation and repair recommendations
- Development of instrumentation monitoring and bi-annual reconnaissance to observe and report on the general conditions of the slopes adjacent to the development
- Assessment of conditions of site drainage in the open space and common areas
- Preventive maintenance and operations
- Conducting public meetings with GHAD representatives and homeowners



Conifer Terrace Landslide Repair Project—Blackhawk Contra Costa County, CA

ENGEO's involvement with this project started in early 2000 and was completed by June 30, 2002. The project involved the construction of an innovative tieback anchor system on an unstable slope located between Conifer Terrace and Sequoia Terrace in Blackhawk. With ENGEO's oversight, the tieback installation successfully arrested the movement of a large landslide that directly threatened about 15 homes.

Prior to the start of construction, ENGEO was involved with an evaluation of multiple alternatives for stability improvements on the hill slope. Based on the time of year, the site conditions, risks and an analysis of the costs associated with each repair method, ENGEO recommended a unique tieback anchor system that was successfully constructed. ENGEO prepared cost estimates for the GHAD for design, construction and monitoring services for their use in the bid process. ENGEO participated in meetings involving the Blackhawk GHAD, Blackhawk Home Owner's Association and individual homeowners.



During construction, ENGEO provided on-site quality control services, cost saving recommendations and review services for suggestions by the contractor. ENGEO participated with the Blackhawk GHAD to modify its existing fee schedule to allow for more efficient coverage of the project. In addition, agreements with the GHAD allowed oversight functions that extended beyond concrete, steel, and soil testing and construction observation.

Cree Court Landslide Repair Project—San Ramon, CA

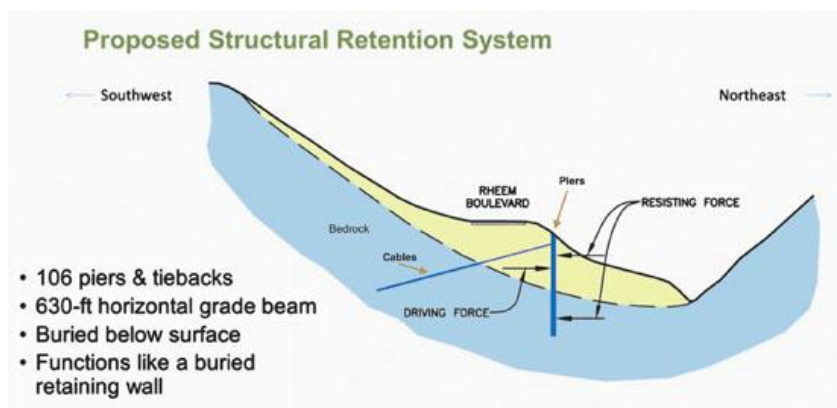
An active landslide within a residential neighborhood was directly affecting four homes on Cree Court. ENGEO's efforts on this project started in 1996 and were completed in 1999. ENGEO's early efforts included preparation of a design to arrest the sliding and stabilize the four affected lots with the installation and monitoring of inclinometers and groundwater extraction wells. When it became necessary to provide remedial designs for the landslide, ENGEO provided design alternatives, design services, bid documents for the City of San Ramon's use and testing and observation services. ENGEO conducted meetings with the City of San Ramon, East Bay Regional Parks Service, East Bay Municipal Utilities District and homeowners. Engineer's cost estimates related to the project design, construction and testing and observation services were prepared by ENGEO and included with the City of San Ramon's bid package. Technical specifications for the Capital Improvement Bid package were also completed by ENGEO.



Rheem Boulevard Landslide Repair—Moraga, CA

ENGEO was contracted with a residential developer, with the approval of the Town of Moraga, to repair a landslide-affected stretch of Rheem Blvd. in Moraga adjacent to a 27-home residential development project. For decades, two landslides from above the road had been shifting the roadway horizontally and downward. This section of road started failing within weeks of its construction by the county in 1948. In the previous approach proposed to solve the problem, the entire roadbed and landslide beneath the road would have been removed and replaced with a geogrid reinforcing, such as a Polystyrene Mesh, which would have arrested the lateral movement of the roadway, but would have required EBMUD to relocate the water main and PG&E to either move or secure its poles. The difficulty in coordinating the work with the utility agencies, and the saturated soil conditions due to El Nino, along with the proposed six-month closure of a busy commute corridor, compelled the stakeholders to look for an alternative.

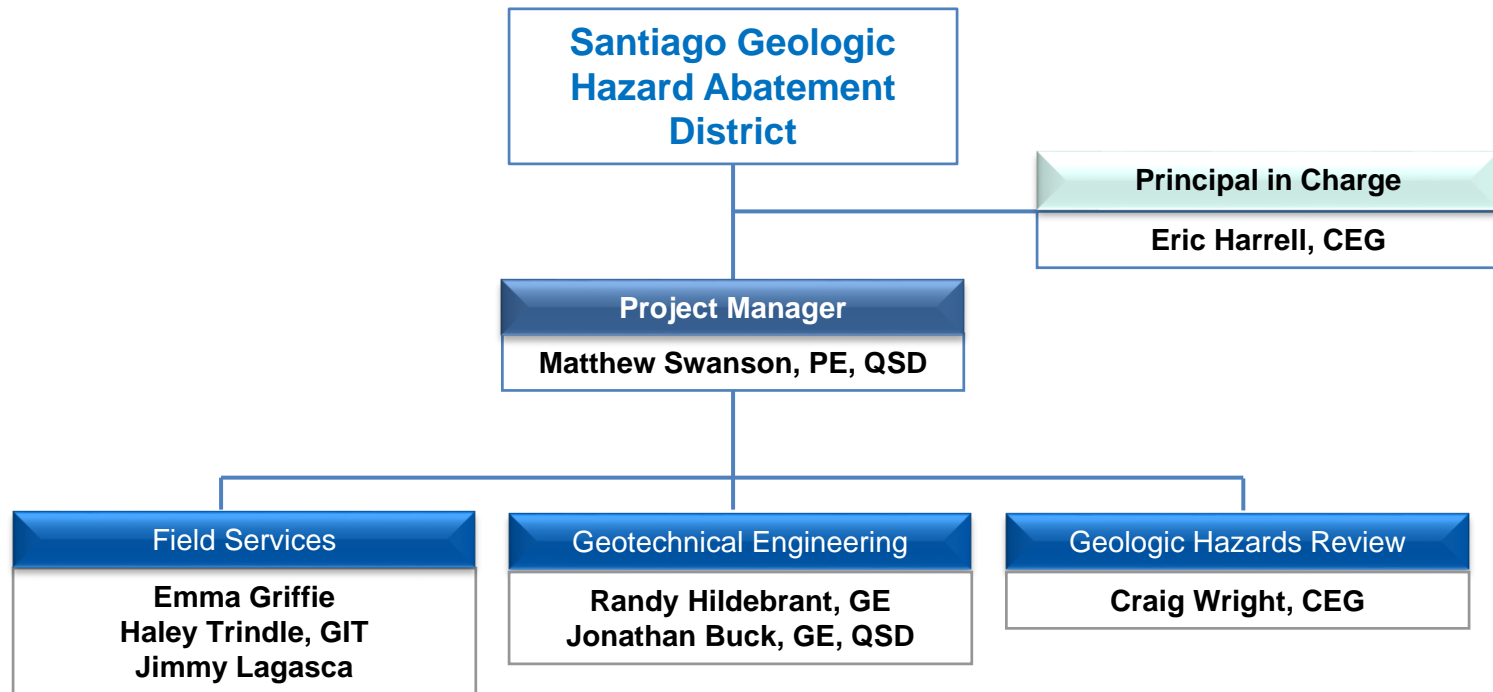
The new solution consisted of a structural retention system comprising drilled piers with tie-backs. The structural retention system included 106 large diameter piers spaced every six feet that extended through the landslide debris. The tie-backs were drilled and installed diagonally above each pier and down into the bedrock beneath the slide to provide lateral restraint for the



piers. The piers were also connected together with a continuous grade beam. This plan meant there was no need to relocate the utilities. The soil below the road remained, but asphalt and the base underneath the asphalt was removed and a new base and new asphalt surface reconstructed.

The structural retention system was based on landslide loading conditions and was designed to handle very large loads, and it successfully arrested the horizontal movement. The new plan to repair the failed part of the roadway disrupted traffic for a shorter period of time than anticipated for the earth work repair. The total estimated cost of the structural retention system was \$2,585,000, \$100,000 less than was estimated for the previous repair option.

TEAM ORGANIZATION CHART



3.2 RESUMES



EDUCATION

BS Civil Engineering University of California, Berkeley 1981

EXPERIENCE

Years with ENGEO: 34

Years with Other Firms: 5

REGISTRATIONS & CERTIFICATIONS

Professional Engineer, CA 39522
Exp. 12/31/2021

Geotechnical Engineer, CA 2166
Exp. 12/31/2021

Uri Eliahu, GE | President

As President of ENGEO, Uri promotes technical excellence and extraordinary client service throughout the firm. Under his leadership, ENGEO has become California's consultant of choice for master-planned, mixed-use development, large-scale earthwork, transportation, urban infill and redevelopment of Brownfields, industrial sites and military bases. Uri is a Civil Engineering graduate from the University of California at Berkeley, and is a Registered Geotechnical Engineer in California and a Registered Civil Engineer in California and Nevada. He is a Founding Director of the California Association of Geologic Hazard Abatement Districts (GHADs) and its current President.

Uri has evolved into a leading expert on entitlement and regulatory permitting processes. During his career, Uri has lent his expertise to a wide range of complex projects in a number of settings. He has developed and fostered close relationships with a number of decision-making officials in many local, state, and federal jurisdictional agencies. Although some of these projects have included a range of contentious or controversial issues, he has consistently been able to deftly navigate potentially prohibitive technical and political constraints, resulting in timely, cost effective delivery of project entitlements. Uri is a trusted advisor to a vast group of public and private clients and colleagues.

- **Fallon Village**, Dublin, CA, *President Oversight*
- **Gale Ranch**, San Ramon, CA, *President Oversight*
- **Hunters Point Shipyard Redevelopment, 'Parcel A'**, San Francisco, CA, *President Oversight*
- **Mare Island - Geotechnical Consultation**, Vallejo, CA, *President Oversight*
- **Oakhurst Slope Stabilization Consultation**, Clayton, CA, *President Oversight*
- **Palos Colorados Geotechnical Services**, Moraga, CA, *President Oversight*
- **Potrero Canyon**, Newhall Ranch, CA, *President Oversight*
- **Reclamation District 17 Levee Evaluation**, Lathrop, CA, *President Oversight*
- **River Islands Phase 2 Levee Evaluation**, Lathrop, CA, *President Oversight*
- **Wendt Ranch**, Danville, CA, *President Oversight*
- **Windemere Parkway Bridge**, San Ramon, CA, *President Oversight*

**EDUCATION**

BS, Geology, Humboldt State University, 1982

EXPERIENCE

Years with ENGEO: 32

REGISTRATIONS & CERTIFICATIONS

Certified Engineering Geologist, CA, 2189, Exp. 8/31/2021
Professional Geologist, CA, 6909, Exp. 8/31/2021

Eric Harrell, CEG | Principal in Charge

Eric joined ENGEO in 1988 and has extensive experience as a Geologist and as a Manager for Geologic Hazard Abatement Districts (GHADs). Eric is involved with the formation, annexation, and management of Geologic Hazard Abatement Districts (GHADs) in Contra Costa, Alameda, Solano Counties and Ventura. He prepares Plans of Control, Engineer's Reports, budgets, and resolutions for the formation and annexation of GHADs. He is also responsible for the day-to-day management of six GHADs which includes budgeting, contracting, monitoring, maintaining, and repairing activities.

- **Santiago GHAD**, Anaheim, CA *Principal*
- **Schaefer Ranch**, Dublin, CA *GHAD Services Consultant*
- **Fallon Village GHAD**, Dublin, CA *GHAD Services Consultant*
- **Santa Paula GHAD** Santa Paula, CA *GHAD Manager*
- **Blackhawk GHAD Piezometer/HD Monitoring**, Danville, CA *Project Manager*
- **Wiedemann Ranch GHAD**, Contra Costa County, CA *GHAD Manager*
- **Leona Quarry GHAD**, Oakland, CA *GHAD Manager*
- **Orinda GHAD**, Orinda, CA *GHAD Manager*
- **Wendt Ranch GHAD**, Contra Costa County, CA *GHAD Manager*
- **Oakland Area GHAD**, Oakland, CA *GHAD Manager*

**EDUCATION**

BS Civil Engineering San Jose State University 2010

Diploma Civil and Structural Engineering Technology British Columbia Institute of Technology 2001

EXPERIENCE

Years with ENGEO: 19

REGISTRATIONS & CERTIFICATIONS

Professional Engineer, CA 74435
Exp. 9/30/2021

CASQA QSD Certified, CA 26464
Exp. 9/10/2021

Matthew Swanson, PE, QSD | Project Manager

Matt leads ENGEO's Irvine office providing geotechnical, water resources, and environmental engineering services. He has been involved in numerous projects throughout California. Matt specializes in evaluating and reporting earthwork grading and improvements, testing and observation, foundation design, geotechnical explorations, and levee analysis.

- **Heritage Fields**, Irvine, CA, *Project Manager*
- **Santiago GHAD**, Anaheim, CA, *Project Manager*
- **Shadow Hawk II**, Ripon, CA, *Staff Engineer*
- **Capistrano at Oak Hills**, Pittsburg, CA, *Field Engineer*
- **Evergreen - Zone 3, Fourth Reservoir**, San Jose, CA, *Field Engineer*
- **Henry Ranch**, San Ramon, CA, *Field Engineer*
- **Neighborhood H, Umbria, PT-Plan Review**, Mountain House, CA, *Project Manager*
- **River Islands Bradshaw's Crossing Bridge**, Lathrop, CA, *Project Engineer*
- **River Islands Phase 2 Levee Evaluation**, Lathrop, CA, *Project Engineer*
- **Sangha Residence, Lot 10, Peters Ranch Estates**, Danville, CA, *Field Engineer*
- **Evergreen View**, San Jose, CA, *Field Engineer*

**Randy Hildebrant, GE | Associate**

Randy joined ENGEO in 2010 and serves a variety of private and public works projects including transit stations; mass grading; arenas, port and harbor facilities; commercial and residential developments; landslide evaluation and stabilization; bridges; schools; and forensic geotechnics. His design experience includes the analysis and mitigation of liquefaction potential; design of reinforced earth retaining wall systems; design of shallow and deep foundations; pavement analysis; and groundwater modeling. He routinely serves all tasks of the project, including the field exploration, analysis and design, technical report preparation, consultation during construction, and project management.

EDUCATION

MS Geotechnical Engineering UC
Berkeley 2010

BS Civil Engineering Cal Poly San Luis
Obispo 2009

EXPERIENCE

Years with ENGEO: 10

REGISTRATIONS & CERTIFICATIONS

Professional Engineer, CA 79940
Exp 9/30/2020

Geotechnical Engineer, CA 3090
Exp 9/30/2020

- **City of Brentwood Pipeline - O'Hara Ave to Hwy 4 Bypass Road**, Brentwood, CA, *Staff Engineer*
- **Dougherty Road Improvements**, Dublin, CA, *Project Manager*
- **Eden Commons**, Hayward, CA, *Staff Engineer*
- **Kingdom Hall Off-Site**, Brentwood, CA, *Project Manager*
- **Residential Area 8W**, Vallejo, CA, *Staff Engineer*
- **Mare Island Causeway Repair**, Mare Island, Vallejo, CA, *Project Manager*
- **SWPPP Erosion Control Monitoring & Reporting**, Vallejo, CA, *Staff Engineer*
- **Monarch Dunes - Phase 2B**, Nipomo, CA, *Project Manager*
- **Mountain House Neighborhood L**, Tracy, CA, *Staff Engineer*
- **Newhall Ranch**, Newhall Ranch, CA, *Staff Engineer*
- **River Islands Bradshaw's Crossing Bridge**, Lathrop, CA, *Staff Engineer*
- **Treasure Island Sub- Phase 1A Geotechnical Services**, San Francisco, CA, *Project Engineer*
- **Wilder (formerly Orinda Gateway)**, Orinda, CA, *Staff Engineer*

**EDUCATION**

BS, Civil Engineering, Arizona State University, 2001

BS, Urban Planning, Arizona State University, 1992

MS, Civil Engineering, Arizona State University, 2002

EXPERIENCE

Years with ENGEO: 18

Years with Other Firms: 5

REGISTRATIONS & CERTIFICATIONS

Geotechnical Engineer, CA, 2958, Exp. 9/30/2020

Professional Engineer, CA, 67302, Exp. 9/30/2020

LEED AP, CA

CASQA QSD Certified, CA, 00230

CASQA QSP Certified, CA, 00230

Nuclear Gauge Operator, CA, 14622

Jonathan Buck, GE, QSD | Associate

Jon joined ENGEO in 2002 with and has 23 years of experience in the industry related to geotechnical and water resources engineering. He specializes in creek stabilization and restoration, stormwater and erosion control management, geotechnical feasibility of earth dams and engineered slopes, deep foundation systems for bridge structures, hydrologic analysis of watersheds and wetlands, and complex permitting and regulatory issues.

- **Schaefer Ranch**, Dublin, CA *Project Engineer*
- **Jordan Ranch Final SWMP**, Dublin, CA *Project Manager*
- **Moller Ranch (Casamira Valley)**, Dublin, CA *Project Manager*
- **Moller Ranch Geotechnical Exploration**, Dublin, CA *Project Engineer*
- **Yerba Buena Island Transit Structure #1**, Yerba Buena Island, CA *Project Manager*
- **Alamo Creek - Storm Water Management**, Danville, CA *Project Engineer*
- **Gale Ranch, Phase III – Hydraulics**, San Ramon, CA *Project Manager*
- **Leona Quarry - SWPPP and Erosion Control Plan Update**, Oakland, CA *Project Manager*



Craig Wright, CEG | Associate

Craig has experience working on and managing a large number of geotechnical and geological projects both here and overseas. He has provided geotechnical consultation, project management, field mapping, fault and landslide investigations, geotechnical hazard analyses, stormwater monitoring, and geotechnical instrumentation installation and monitoring services for more than 16 years. He delivers practical and pragmatic solutions to each unique project and keeps open and honest communication, ensuring his clients are informed every step of the way.

EDUCATION

BS Professional Geology - With Honors
University of Montana 2003

EXPERIENCE

Years with ENGEO: 16

REGISTRATIONS & CERTIFICATIONS

Professional Geologist, CA 8548
Exp 1/31/2021

Certified Engineering Geologist, CA
2563, Exp 1/31/2021

- **7 Country Oak Lane**, Alamo, CA, *Project Manager*
- **Alamo Gardens, Lot 11**, Alamo, CA, *Project Manager*
- **Alamo Summit - Storm Water Sampling**, Alamo, CA, *Project Manager*
- **Black Diamond Ranch - Water Sampling and Testing**, Antioch, CA, *Project Manager*
- **Castro Ranch Supplemental LHD Borings**, Richmond, CA, *Project Geologist*
- **ERSB Land Planning & Quarry Reclamation**, Hollister, CA, *Field Geologist*
- **Ersted Property - Supplemental Fault Exploration**, Hayward, CA, *Field Geologist*
- **Freitas Ranch - Geotechnical exploration**, San Ramon, CA, *Project Geologist*
- **Mercy/Related HOPE SF Sunnydale-Velasco Housing**, San Francisco, CA, *Project Geologist*
- **Newell Property**, American Canyon, CA, *Project Manager*
- **North Village Unit 6**, Vacaville, CA, *Project Manager*
- **Potrero Block X**, San Francisco, CA, *Project Geologist*
- **Schaefer Ranch**, Dublin, CA, *Project Geologist*
- **Sheridan Road Caltrans Landslide Repair**, Oakland, CA, *Senior Geologist*

**EDUCATION**

BS Geological Sciences California
State University Fullerton 2017

EXPERIENCE

Years with ENGEO: 1

REGISTRATIONS & CERTIFICATIONS

24 Hour HAZWOPER Training, CA
2002092316634

40 Hour HAZWOPER Training, CA
2003261316634

Emma Griffie | Staff Geologist

Emma is experienced in supporting water well design and construction by providing formation sampling, preparing detailed formation logs, aquifer zone isolation testing, and interpreting geophysical logs to identify and characterize aquifers and aquitards. She supported the design of deep nested monitoring wells instrumental to the water quality monitoring required to operate the Mid-Basin Injection wells in central Orange County Groundwater Basin. She supported the construction, design, and development of the two Sunset Gap Project clustered monitoring wells. Emma provides oversight and documentation of well construction, development and testing. She also provides oversight and direction during well rehabilitation including chemical treatment, redevelopment, and pumping tests. She has provided oversight of well discharges to ensure compliance with NPDES discharge requirements. Emma supports the environmental analysis and impact assessment for EIRs including oil field revitalization. She has experience in geotechnical and continuous rock core logging and sampling, and identifying samples for laboratory sampling.

- **City of Beverly Hills Well No. 2, 4, 6 Rehabilitation**, Beverly Hills, CA, *Staff Geologist*.
- **City of Beverly Hills Well No. 5 Rehabilitation**, Beverly Hills, CA, *Staff Geologist*.
- **CM Services Mid-Basin Injection Well**, Santa Ana, CA, *Staff Geologist*
- **Construction Management for SAR-13**, Santa Ana, CA, *Staff Geologist*
- **Mesa Well Automation Project: Field Services Well Automation**, Costa Mesa, CA, *Staff Geologist*
- **Mel Leong Design Support**, South San Francisco, CA, *Staff Geologist*
- **Corona As-Needed Hydrogeologic Services, New Home Gardens Area Supply Well Project (Wells 32 & 33)**, Corona, CA. *Staff Geologist*
- **OCWD Sunset Gap Monitoring Well Project**, Seal Beach, CA, *Staff Geologist*

**EDUCATION**

BS, Earth Sciences, University of California Santa Barbara, 2016

EXPERIENCE

Years with ENGEO: 3

REGISTRATIONS & CERTIFICATIONS

Geologist in Training CA, 990
Nuclear Gauge Operator, CA, 18553

Haley Trindle, GIT | Staff Geologist

Haley is a staff geologist at ENGEO primarily focused on Geologic Hazard Abatement Districts (GHADs) monitoring and management. Haley has been involved with the formation, annexation, and management of Geologic Hazard Abatement Districts (GHADs) in Alameda, Contra Costa, Orange, and Ventura Counties. She assists with preparation of Plans of Control, Engineer's Reports, budgets, and resolutions for the formation and annexation of GHADs. She also assists with the day-to-day management of 12 GHADs which includes budgeting, contracting, monitoring, maintaining, and repairing activities.

Her technical experience includes project management, permitting, characterization and logging of geologic samples to determine subsurface soil and rock conditions, geologic hazard identification and classification, monitoring subdrain outlets, piezometers, inclinometers, and settlement instruments. Haley has assisted with report writing, plan reviews, and slope instability repair plans. Additionally, she has experience with applications of Geographic Information Systems (GIS) and unmanned aircraft systems (UAS) surveys. She has worked with several disciplines and agencies throughout multiple projects that require cross-discipline coordination and cooperation.

- **Santiago GHAD**, Anaheim, CA *Staff Geologist*
- **Santa Paula GHAD**, Santa Paula, CA *Staff Geologist*
- **Blackhawk GHAD Horizontal Drain and Piezometer Monitoring**, Blackhawk, CA *Staff Geologist*
- **Leona Quarry GHAD**, Oakland, CA *Staff Geologist*
- **Wendt Ranch GHAD**, San Ramon, CA *Staff Geologist*
- **Wiedemann Ranch GHAD**, San Ramon, CA *Staff Geologist*

**Jimmy Lagasca | Construction Services Manager**

Jimmy specializes in large-scale residential projects with extensive mass grading as well as in-fill projects, utility trench backfill, street construction, retaining wall construction, and select special inspection services. Jimmy further specializes in pavement rehabilitation projects, including subgrade soil stabilization, utilization of geotextile stabilizations products, and hot mix asphaltic (HMA) batch plant inspection and HMA placement, compaction and testing according to Caltrans and ASTM specifications. In addition, he performs GPS measurements for remedial grading items during construction and SWPPP/BMP monitoring, stormwater sampling and reporting services according to SWRCB Order No. 2009-009 DWQ.

EXPERIENCE

Years with ENGEO: 16

REGISTRATIONS & CERTIFICATIONS

Nuclear Gauge Operator, CA 14981

Radiation Safety Officer, CA 17561

- **Mission Village**, Valencia, CA, *Construction Services*
- **Heritage Fields**, Irvine, CA, *Construction Services*
- **East Garrison Development, Fort Ord**, Carmel, CA, *Construction Services*
- **Enclave (Grant Road)**, Mountain View, CA, *Construction Services*
- **Evelyn Glen**, Sunnyvale, CA, *Construction Services*
- **Metcalf Rd Property**, San Jose, CA *Construction Services*

4.0 REFERENCES

Matt Carpenter
Newhall Land and Farming Company
25124 Springfield Court, Suite 300
Valencia, CA 91355
(949) 349-1000
Matt.Carpenter@fivepoint.com

David Field, Hydrogeologist
Orange County Water District
18700 Ward Street
Fountain Valley, Ca 92708
(714) 378-3237
dfield@ocwd.com

Karyn Igar, Senior Engineer
Mesa Water District
1965 Placentia Avenue
Costa Mesa, CA 92627
949-207-5452
karyni@mesawater.org

5.0 ACKNOWLEDGEMENT OF GHAD CONTRACT POLICY

We acknowledge and accept the GHAD services contract including the insurance requirements.

6.0 PROPOSED FEES

Our fee estimates for Alternatives 1 and 2 and rate sheets are included in a separate sealed envelope for consideration after selection of the most qualified consultant.



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— Expect Excellence —



MAY 29, 2020

STATEMENT OF QUALIFICATIONS TO PROVIDE
PROFESSIONAL GROUNDWATER MONITORING
AND CONSULTATION SERVICES FOR THE SANTIAGO
GEOLOGIC HAZARD ABATEMENT DISTRICT



GROUP DELTA



Santiago GHAD Board of Directors

May 29, 2020

Matt Swanson, GHAD Services Consultant
mswanson@engeo.com

Subject: Statement of Qualifications for Santiago Geologic Hazard Abatement District
Group Delta Proposal No. IR20-026

Group Delta Consultants, Inc. (Group Delta) is pleased to provide this proposal to the Santiago Geologic Hazard Abatement District to provide dewatering monitoring services for the subject site. This technical submittal is in response to the request for qualifications (RFQ), including content received in Addendum 1. We are a full service geotechnical engineering, construction materials testing, special inspection, and environmental consulting firm established over 34 years ago. We are located a few minutes from the Project site. We are highly qualified for your project because of our:

- **EXPERIENCE WITH GROUNDWATER MONITORING AND DATA MANAGEMENT:** Group Delta has extensive experience managing annual contracts and responding to field measurements after major events as will be required for this contract after rain. Group Delta has provided groundwater monitoring and instrumentation data management services for several clients and projects that includes the \$1.6 Billion Westside Subway (Extension of the purple line), the \$1.2 Billion Gerald Desmond Bridge Replacement Project and Seattle's University Light Rail Tunnels. Most recently for Westside Subway, we maintained all instruments on websites with various automatic alarms setup and communications to the client and contractor. In addition we have experience in providing weekly, biweekly and monthly reporting for these services.
- **PROJECT CONTROLS AND QUALITY CONTROL:** Group Delta will meet all contractual, insurance, and administrative requirements for this contract. Our Project Managers work very closely with our project accountants to ensure timely delivery of invoices and monitor budget. Group Delta assures its high quality of professional services through its Design Quality Control Plan which includes maintaining calibrated field equipment, peer review of collected/stored data, and senior reviews by Principal level persons with at least 25 years' experience not connected with the project for reasonable, accuracy, and conformance to the project's needs.
- **AVAILABLE BANDWIDTH:** Group Delta has a large staff of experienced engineers, geologists and technicians available for the project that have provided similar services for contractors, developers, cities, and other municipalities and agencies. Group Delta has over 100 staff and 5 offices in southern California, including offices in Anaheim and Irvine that are very close to the job site and can respond quickly to any request.

Enclosed here is our Statement of Qualifications for your consideration. We have reviewed the "Online References" listed. Thank you for the opportunity to submit for your consideration.

Sincerely,
GROUP DELTA CONSULTANTS, INC.

Michael J. Givens, PhD PE GE PG | Associate Engineer

Shah Ghanbari, PE | President

UNDERSTANDING & APPROACH

The scope of work requested is well described in the RFQ Attachment 1, “Dewatering Monitoring and Consultation Scope of Services.” Group Delta has credentialed Professional Engineers (PE), Geotechnical Engineers (GE), Professional Geologists (PG), Certified Engineering Geologist (CEG) and Certified Hydrogeologists (CHG) available to support the two alternative monitoring schemes requested and to provide additional resourcing bandwidth if additional tasks arise during the contract period.

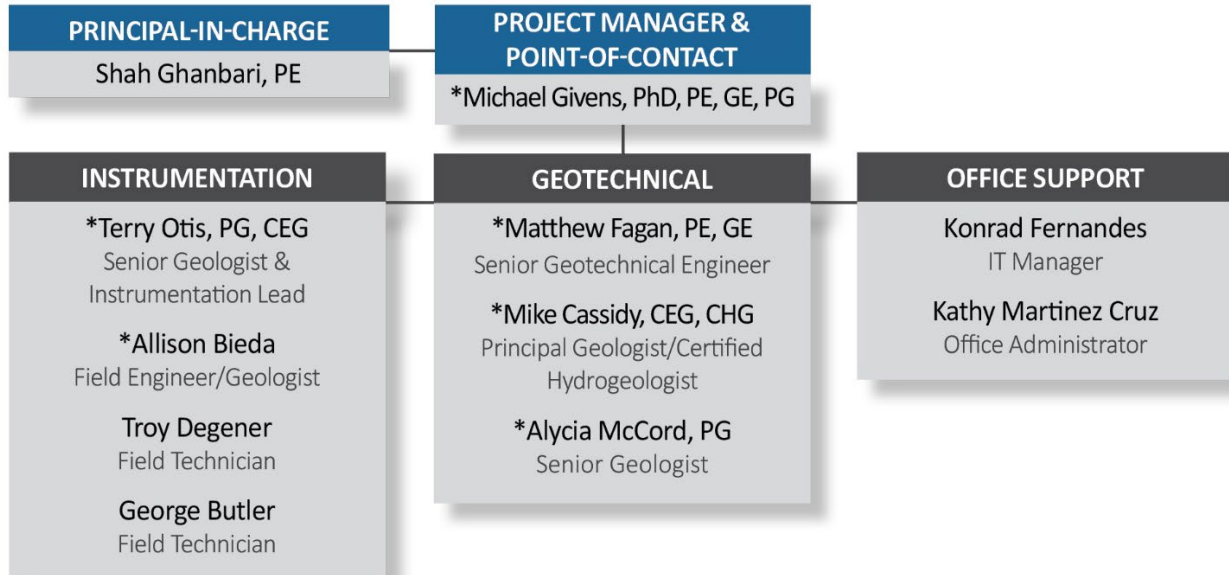
Monitoring services as requested in the RFQ will include the following activities:

- Group Delta’s Project Manager will work with GHAD’s consultants to define a project schedule based on the alternative monitoring scope of services chosen.
- Historical Data will be reviewed and integrated into a GIS online system for use in comparison and evaluation compared to new data.
- Perform groundwater and ground movement monitoring at the agreed intervals to include groundwater elevations, ground movements in inclinometers and report the instrumentation condition both prior to and during the wet season and following a high rain event.
- Field data and corresponding rainfall data will be quality checked for accuracy and input into the online GIS data base within days of our field work.
- Group Delta’s Project Manager will communicate the finding to GHAD’s consultants for discussion and to provide opportunity for comments.
- Our findings will be presented in a well-illustrated report that will be included in the annual report that is due by November 1st of each year.
- Our report will include collected groundwater data, groundwater monitoring equipment assessments, dewatering system equipment assessments, groundwater comparison plots, and our findings, conclusions and recommendations.
- A publicly available GIS portal will house all information produced by Group Delta for the project.
- Group Delta will present our findings at the GHAD Board of Director’s meeting.

Group Delta will be readily available for reviews and emergency services, if needed. Group Delta has a long history of working on the owner’s side to review submittals and construction activities for compliance with applicable guidelines. Even though not specifically noted in the scope of work, Group Delta will immediately staff any emergency response request as we recognize that often a hazard should first be contained to protect property and life. Then our team would help develop an action plan to help determine if remedial measures, monitoring or no further action is required to address the hazard.

ORGANIZATION CHART

Below we have provided an organization chart that illustrates our proposed team. All our key personnel are committed to providing their high-level expertise for this project, and are supported by staff engineers and geologists.



RESUMES

Following this chart, we have also provided resumes to demonstrate our key personnel's' relevant experience. Resumes for individuals with an asterisk () above have been provided. Additional resumes are available upon request.*

Professional Registrations

Professional Engineer, CA No. 81361
Geotechnical Engineer, CA No. 3145
Professional Geologist, CA No. 9284

Education

PhD, Civil Engineering, University of California, Los Angeles (UCLA)

MS, Civil Engineering, University of California, Los Angeles (UCLA)

BS, Geology, California State University, Long Beach (CSULB)

Years of Experience

15

Michael Givens PhD, PE, GE, PG | Project Manager / Associate Engineer

Dr. Givens has 15 years of experience in geotechnical and geological engineering. Dr. Givens has conducted project studies and formulated recommendations for geotechnical engineering projects including slope stability, bridges, retaining walls, roads and parking lots, pipelines, sewer lines, storm drains, residential and commercial construction as well as litigation support. He has also been involved in environmental engineering including environmental site assessments (Phase I-IV) and has performed field and laboratory testing of soils according to ASTM test procedures and Caltrans methods. Dr. Givens is well versed in reviewing contractors' technical submittals including quality control programs, start-up plans and schedules, monitoring and

evaluating construction activities, as well as directing, coordinating and reviewing work plans for improvement projects, construction administration and inspection, and resource planning. Representative experience includes:

Crenshaw/LAX Transit Corridor, Los Angeles, CA: Geotechnical Engineer for this \$1.27bn design-build project for the Los Angeles County Metropolitan Authority (Metro). Dr. Givens provided management of additional geotechnical investigations, groundwater well construction and pump testing during construction stage services to successfully identify and evaluate a natural low permeable soil unit separating two groundwater bearing units at the proposed underground Expo/Crenshaw station. Demonstrating through performing pump tests that a natural clay layer, rather than costly ground improvement, could be used as a vertical cutoff for the 70-foot-deep Metro Expo/Crenshaw station that was excavated into groundwater.

I-405 Improvement Project (SR-73 to I-605), California: Dr. Givens led geotechnical services for this \$1.27 Billion Design-Build project for Orange County Transportation Authority (OCTA) to widen 16 miles of the I-405 in Orange County. Dr. Givens worked closely with the design and construction joint ventures, and led the progression from concept to final design for three of the seven segments of the project, including 8 bridges, 30 retaining walls, 10 sound walls, several culverts, and recommendations for the geotechnical design and construction of 8 miles of roadway improvements. Dr. Givens was involved with staff resourcing, scheduling, construction document review, and interfacing with the design joint venture, construction joint venture, and the OCTA representatives.

Bristol Commons, Santa Ana, California: As Project Manager, Dr. Givens is the geotechnical lead for the development of two city blocks totaling approximately 42 acres. The conceptual master plan includes approximately 2,700 residential units that may consist of a mix of construction including (on-grade garden apartments, podium style apartments and possibly high-rise construction). Dr. Givens is providing geotechnical recommendations for planning purposes to assist the owner in building types and configurations. The primary geotechnical design issues include shallow groundwater, expansive near surface soils, and large seismic loading. Preliminary subsurface investigation includes installation of groundwater monitoring wells and periodic monitoring for construction planning purposes.

Professional Registrations

Professional Engineer, California No.
57248

Geotechnical Engineer, California, No.
2569

Education

Master of Science, Civil &
Environmental Engineering, University
of California, Davis

Bachelor of Science, Civil Engineering,
University of California, Davis

Years of Experience

26

Matthew Fagan, PE, GE | Associate Geotechnical Engineer

Mr. Fagan is an experienced professional engineer who has performed geotechnical investigations and provided geotechnical consultation during the construction of private and public projects throughout San Diego, Riverside and Imperial Counties. His responsibilities include project management, investigation planning, overseeing field staff, geotechnical analyses and budget management. Mr. Fagan has extensive analysis experience evaluating slope stability, ground settlement, hydro-collapse potential, expansive soil/heave potential, differential settlement potential, and seismicity. As the engineering manager of the San Diego laboratory, Mr. Fagan is actively involved in updating and improving laboratory testing procedures and computational methods. He has developed our in-house testing capabilities

for reinforcing steel, post-tension tendons, bolts, concrete shrinkage, and CMU prisms. Mr. Fagan has also performed destructive testing on materials not common to general construction. Representative experience includes:

Creekside District, San Marcos, California: As Geotechnical Engineer, Mr. Fagan provided the geotechnical investigation for a proposed mixed-use commercial and residential development in downtown San Marcos. This project included periodic measurements of groundwater elevations within numerous existing groundwater monitoring wells installed along San Marcos Creek. The project also includes imported fill placement over saturated alluvium and settlement monitoring. Other improvements include raising grades for flood control along Discovery Way, and the construction of two new vehicular bridges over San Marcos Creek at Via Vera Cruz and Bent Avenue. Mr. Fagan also provided the Foundation Reports for the two new bridges.

United Rock Products (URP), Avenida Barbosa Slope Stabilization, Irwindale, California: As Geotechnical Engineer, Mr. Fagan provided a geotechnical investigation with borings and cone penetration test (CPT) soundings to characterize a slope failure within a silt pond that also damaged Avenida Barbosa. This project included the installation and periodic measurement of groundwater elevations within several groundwater monitoring wells we installed along Avenida Barbosa. Mr. Fagan conducted the slope stability analyses, and developed a buttress designed to stabilize and reconstruct the slopes along the roadway. The buttress was composed of crushed concrete generated from construction debris. Mr. Fagan also managed the geotechnical testing and observation services during construction of the 80-foot high buttress (which lasted over 18 months) and provided testing and observation service during reconstruction of the Avenida Barbosa pavements.

CALTROP Corporation, Santa Fe Pedestrian Underpass, Encinitas, California: As Project Engineer, Mr. Fagan provided a third-party geotechnical review of perched groundwater conditions that adversely affected drilled shaft construction. Mr. Fagan also provided alternatives for dewatering the site.

Sorrento to Miramar Double Track, Sorrento Valley, California: As a Geotechnical Consultant, Mr. Fagan provided a supplemental site investigation to help refine retaining wall design for a portion of the new double track rail lines located in close proximity to an existing commercial development. Geotechnical aspects of the project included groundwater monitoring, laboratory testing, and detailed analyses to

characterize the active and passive pressures acting on the new tied-back soldier pile walls within the soft, saturated alluvial soils at the site.

Olympic Parkway, Chula Vista, California: As Project Engineer, Mr. Fagan managed the geotechnical services during construction of the six-lane parkway between Interstate 805 and State Route 125. The project included up to 60 feet of fill embankments placed over saturated alluvial soils. Mr. Fagan designed buttresses to improve slope stability, provided wick drain recommendations to expediate settlement beneath the roadway by increasing the rate of groundwater drainage from the saturated alluvium, and monitored settlement time using both piezometers and pore pressure transducers. Mr. Fagan also managed earthwork testing and observation, pavement section design and quality control of the subgrade, base and asphalt concrete.

All American Canal Lining Project, Imperial County, California: As Project Engineer, Mr. Fagan helped to prepare a geologic hazard assessment and several geotechnical investigation reports for this 36-mile-long new concrete lined canal project. The investigations used more than six drill rigs to complete more than 100 borings and 30 monitoring wells along the alignment. Subsurface information gathered during the investigations was used to provide recommendations for slope stability, landslide remediation, dewatering, earthwork construction, excavatability, and subgrade support for the new concrete improvements. Mr. Fagan also helped manage the material testing and observation of the concrete placed for the new canal lining.

22-Mile Gas Pipeline, County of Imperial, California: As Project Engineer, Mr. Fagan prepared a geotechnical investigation with 41 exploratory borings conducted to characterize the general subsurface conditions along the planned 22-mile natural gas pipeline alignment between El Centro and Brawley. Groundwater depths were measured in the borings, and recommendations were provided for dewatering, shoring, and pipe jacking where necessary.

Professional Registrations

Geotechnical Engineer CA, No. 3004
Professional Engineer CA, No. 71746

Education

Bachelor of Science, Geology, California
State University, Long Beach (1999)

40-Hour HAZWOPER Certified Nuclear
Gauge Certified NAIU Certified
Diver

Years of Experience

19

Terry Otis, PG, CEG | Senior Geologist

Mr. Otis has worked in the environmental and geotechnical fields for the last 19 years during which time he has developed a broad range of field and office experience from involvement in a variety of projects in southern California. In the environmental field, Terry has experience in soil, soil vapor, groundwater assessments and remediation projects. He has also completed numerous Phase II soil, soil vapor, and groundwater investigations of properties impacted by hydrocarbons, polychlorinated biphenyls, metals, and chlorinated solvents. Many of the project sites he has worked on have ranged from privately owned dry cleaning facilities to corner retail gasoline service stations. Mr. Otis has extensive experience working with local and state regulatory agencies and, due to his working relationships with these agencies, has

achieved environmental risk-based closures for numerous sites in Southern California. Representative experience includes:

Gerald Desmond Bridge Replacement Project, Port of Long Beach, California: As Project Manager, Mr. Otis Project directed the installation of six groundwater monitoring wells set in the unconfined aquifer and three set in a confined aquifer for the environmental issues associated with the construction operation for the new Gerald Desmond Bridge in Long Beach, California. Both hollow-stem and rotary wash drilling methods were utilized in the installation of the piezometers. Also directed the installation, setup and recording of 25 vibrating wire piezometers (13 in the unconfined aquifer and 12 in the confined aquifer) also using hollow-stem and mud rotary drilling methods. Per the request of the Port of Long Beach and Caltrans (the regulatory agencies overseeing the construction of the new bridge), developed action levels for groundwater elevations and flow direction for both the unconfined and confined aquifers, which are being used during the construction of the deep foundation piles for the new bridge. The groundwater in the area of Gerald Desmond Bridge is hydraulically connected to the ocean and heavily affected by tidal fluctuations. Therefore, to establish action levels for groundwater elevations, developed a method to normalize groundwater elevations by correcting for tidal changes. Directed several rounds of groundwater sampling to develop action levels for existing groundwater contamination.

Four Seasons Hotel, Westlake, California: As Project Manager, Mr. Otis provided for a groundwater dewatering system for the hotel regulated under a National Pollutant Discharge Elimination System (NPDES) permit and the State of Water Resources Control Board's Waste Discharge Requirements (WDRs). Water discharge at the site consisted of treated groundwater from a dewatering system that protected the hotel structures from groundwater saturation. The treatment process included a peroxide/ozone advanced oxidation system to treat 1,4-dioxin and granular activated carbon vessels to treat other VOC concentrations found in the groundwater. In addition, the effluent water from the treatment system was blended with potable water to dilute selenium concentrations in the groundwater. The blended water was further treated with sodium bisulfite for dechlorination. As Project Manager, supervised and coordinated maintenance programs, reviewed and evaluated analytical data, scheduled carbon change-outs, replaced oxygen tank and sodium bisulfite, prepared quarterly progress reports, and interfaced with clients and the Water Board when necessary.

Professional Registrations

Professional Geologist, California No. 6281

Certified Hydrogeologist, California No. 0580

Geologist and Hydrogeologist, Washington No. 2519

Certified Environmental Manager, Nevada No. 1811

Professional Geologist, Idaho No. 1250

Registered Professional Geologist, Arizona No. 47065

Education

Master of Science, Geology, San Diego State University

Bachelor of Science, Geology, University of California, Santa Barbara

Years of Experience

29

Mike Cassidy, CEG, CHG | Principal Geologist/Certified Hydrogeologist

Mr. Cassidy is a Professional Geologist and Certified Hydrogeologist in the state of California with over 29 years of professional experience performing site assessment and remediation and installing/managing soil and groundwater treatment systems. He has managed site assessment and remediation projects throughout Southern California and has supervised technical staff conducting thousands of Phase I and Phase II investigations and remediation activities. Mr. Cassidy has reviewed, signed, and stamped groundwater monitoring and sampling reports for hundreds of contaminated sites in Southern California. These projects have demanded a broad range of the expertise, including project forecasting and cost estimating, groundwater flow, water quality evaluation, contaminant fate and transport, feasibility analysis, health risk evaluation, and soil and groundwater remediation. Mr. Cassidy's clients have included public agencies, major oil companies, private developers, consulting firms, and private individuals. He has provided expert witness testimony and litigation support regarding numerous environmentally impacted properties. Representative experience includes:

2810 Villa Way Groundwater Sampling, Remediation, and Negotiations, Mosier & Co., Newport Beach, California (EN8015 and EN468; 2019): Mr. Cassidy is currently Project Manager and principal registered professional in responsible charge for the rapid and phased site assessment of soil and groundwater contamination at an abandoned former metal plating facility. Mr. Cassidy is in charge of negotiations of environmental issues working with multiple attorneys and the Regional Board. Rapid assessment activities and exceptional communication skills have resulted in the abeyance of a major fine imposed by the Regional Board against the property owners. Mr. Cassidy is also exploring low-cost options for the remediation of soil and groundwater issues the site which will satisfy the demands of the Regional Board. As part of the process Mr. Cassidy has overseen the rehabilitation of several groundwater wells at the site that have not been used for decades, and implementation of a groundwater monitoring and sampling program to track concentrations of contaminants in groundwater through time. In addition, Mr. Cassidy has completed a study of tidal influence on the direction of groundwater flow and magnitude and the change of groundwater salinity with depth beneath the site.

Los Angeles World Airports (LAWA) Assessment of Multiple Jet Fuel Releases and PFAS in Groundwater: Managing professional in responsible charge of assessment of two different jet fuel releases, including collection of soil samples, installation of groundwater monitoring wells, free product recovery, and agency reporting including submittal of a Site Conceptual Model. Assisted client in proactively testing for the presence of PFAS in groundwater in existing groundwater monitoring and sampling wells, prior to California Water Quality Control Board directives to do so.

Professional Registrations

Professional Geologist, No. 9253

Safety Trained Supervisor Construction,
No. STSC-21768

Education

Bachelor of Science, Anthropology,
Oregon State University, 2000

Bachelor of Arts, Oregon State
University, 2000

Bachelor of Arts, Geology, Oregon State
University, 2000

Years of Experience

15

Alycia McCord, PG | Senior Geologist

Ms. McCord has more than 15 years of experience with environmental investigations and remediation. Her experience includes managing small and large-scale soil and groundwater investigations and remediation programs that have included large well installation programs, as well as both small and large-scale groundwater monitoring programs throughout southern California and southern Nevada. Representative experience includes:

Environmental Consulting Services, Google at Former Howard Hughes Hangar, Playa Vista, California: Ms. McCord served as Project Manager for environmental compliance during construction activities to renovate the Former Howard Hughes Hercules Hangar Buildings. The property owner has an active groundwater remediation system on site. Oversee

air monitoring as specified in compliance plan issued by South Coast Air Quality Management District and the site soil management plan. Work with management company and general contractor to manager environmental concerns.

Groundwater Monitoring Program, Stauffer Management Company, Carson, California: Ms. McCord served as Project Manager for a \$250,000 groundwater monitoring program to assess progress of the Enhanced In-Situ Bioremediation (EISB) system. Monitoring includes conducting quarterly and semi-annual events with up to 151 wells to gauge and 120 wells to sample. Additional activities include coordinating complex sampling schedule with adjacent property owners for access to off-site wells, managing field staff, coordinating reporting and validation efforts with laboratory and data validators, and completing reports.

PPG Industries, Inc., Torrance, California: Ms. McCord served as Project Manager for this former paint and coatings manufacture where the primary contaminants of concerns for the site were VOCs, petroleum hydrocarbons, and PCBs. Conducted a site-wide investigation and completed investigation scope. Her responsibilities included completing work plan, conducting field activities, and generating and submitting reports to the Department of Toxic Substances Control (DTSC). Remedial action included excavating delineated area of contamination and removing the soil from site. Clean soil was hauled on-site to complete backfilling. A completion report was generated and submitted to the DTSC. Ms. McCord conducted groundwater monitoring program to assess progress of the pump and treat system. Conducted and supervised field tasks required to successfully complete quarterly monitoring events involved the purging and sampling of 14 wells. The Site Conceptual Model Update and Waste Discharge Reports were submitted quarterly the Los Angeles Regional Water Quality Control Board (LARWQCB).

Professional Registrations

Geologist in Training, California

Certifications

OSHA 30-Hour Outreach Training
Program- Construction

OSHA HAZWOPER 40-Hour Training

Education

MS, Geotechnical Engineering,
California State University Fullerton,
Fullerton

BS, Geological Sciences, California State
University Fullerton, Fullerton

Years of Experience

4

Allison Bieda | Field Engineer/Geologist

Ms. Bieda has worked in the environmental and geotechnical field for the nearly four years performing tasks including, but not limited to: creating environmental and geotechnical work plans; evaluation, interpretation and reporting of chemical and hydrogeology testing data and interpretation of sub-surface geology in support of environmental remediation; groundwater well installations, obtaining well and encroachment permits; conducting soil logging for direct push, hollow stem, sonic, and mud rotary drilling; performing percolation testing; development of injection/extraction wells and well abandonment; environmental sampling in support of Phase II Supplemental and Remedial investigation; maintaining accurate testing logs, calibration logs and environmental monitoring (storm water, VOC, dust, noise and site hazmat compliance conditions); irrigation well abandonment permitting and implementation; monitoring of

inclinometers, piezometers, and strain gauges; Quarterly and Annual Reporting, as well as updating project folders, performing quality control on data input and obtaining project bids from sub-contractors; ordering and maintaining field equipment, tracking costs associated with field and reporting work; seamless communication with coworkers, project managers and contractors; coordinating schedule requirements with multiple departments, state/county inspectors and sub-contractors. Relevant experience includes:

Groundwater Monitoring Program, Stauffer Management Company, Vernon, California (2018-Ongoing): Served as lead field engineer for groundwater monitoring program with an annual budget of \$40,000. Groundwater monitoring is conducted semi-annually, during which time, groundwater is gauged and sampled from 8 monitoring wells using HydraSleeve™ samplers, which are placed in the wells two weeks prior to the sampling event. Responsibilities include ordering and maintaining field equipment, training staff on correct sampling procedures, and tracking costs associated with field and reporting work. Additionally, semi-annual groundwater monitoring reports are prepared which document the sampling methods, groundwater elevations and hydraulic gradient, sampling results, concentration trends, and an evaluation of data quality.

Groundwater Monitoring Program, Stauffer Management Company, Carson, California (2017-Ongoing): Lead staff engineer for the groundwater monitoring program with an annual budget of \$250,000, which is currently assessing the progress of the Enhanced In-Site Bioremediation (EISB) system. Monitoring includes conducting semi-annual events with gauging of 153 wells and sampling up to 120 wells each event. Additional responsibilities include coordinating complex sampling schedule with adjacent property owners for access to off-site wells, managing additional field staff, mechanical redevelopment of biofouled wells, wellhead and vault maintenance, coordinating reporting and drafting efforts with laboratory and subcontractors, and completing reports. Additional field activities include determining well locations, installing wells, and redeveloping wells to maintain system performance.

PROJECT LISTING

Group Delta has provided services for various projects that require similar services, as well as projects in the Anaheim area. Below is a listing of some recent, relevant projects we've provided services for:

Mill Creek Wetlands | Ontario, California



The Mill Creek Wetlands was a multi-jurisdictional regional watershed water quality management project via stormwater wetlands treatment. Additionally, the completed project provides regional environmental and recreational benefits. This project also restores habitats and protects ecological resources. Group Delta provided water quality sampling and analysis for contaminants, nutrients, organics, bacterial indicators, and parameters. Group Delta also provided surface water and groundwater flow measurements

and modeling, as well as assistance with the wetland operation. Throughout this project, Group Delta reported to the State Water Resources Control Board.

Gerald Desmond Bridge | Long Beach, California

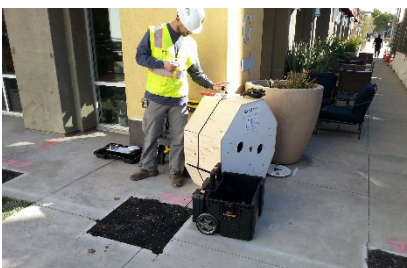


This \$1.2B design-build bridge replacement project has the highest vertical clearance of all cable-stayed bridges in the United States (US), and is the second tallest cable-stayed bridge design in the US. The Gerald Desmond Bridge accounts for 15% of waterborne cargo movements in the US. It has the highest clearance to accommodate the newest generation of efficient cargo ships. Group Delta is currently serving as the Geotechnical Engineer of Record and Environmental Compliance Managers, providing groundwater

contamination characterization, monitoring & modeling; hazardous materials surveys, technical abatement specification design, air monitoring, & contractor observation services. Group Delta is also providing Stormwater Best Management Practice (BMP) inspections and impacted soil management, as well as contaminated soil management.

Group Delta was charged with developing and monitoring action levels for groundwater elevation and flow directions for aquifers that were used during deep foundation construction for the proposed bridge to mitigate potential migration of an existing benzene plume and adjacent site contaminants. Group Delta installed groundwater monitoring wells, accounted for the hydraulic connectivity to the ocean (and tidal fluctuations) and monitored 25 vibrating wire piezometers to satisfy regulatory bodies concerns about contamination migration during construction.

Westside Subway, Section 1 (Purple Line Extension) | Los Angeles, California



Group Delta designed and installed instrumentation systems for three subway stations and associated subway tunnels. The instrumentation systems included 32 vibrating wire piezometers, 27 ShapeAccelarray (SAA) inclinometers, 46 in-place inclinometers (IPIs), 161 multi-point borehole extensometers with vibrating wire piezometers, 910 strain gauges, 16 load cells, 500 crack gauges, and nine total stations that scan 220 building settlement markers, 483 ground surface settlement reference markers, and 16 utility

monitoring points. All instruments with the exception of the crack gauges are automated and remotely

upload data to a cloud based Trimble 4D system. Data from each instrument was uploaded to the 4D system, processed, and graphed. With a username and password, the Trimble system could be accessed from any computer connected to the internet.

Crenshaw/LAX Transit Corridor Project | Los Angeles, California



Expo/Crenshaw is a two-level underground station at the northern terminus of the new line. It required a 70ft-deep excavation, of which approximately 20ft was below groundwater level. To avoid settlement beneath existing utilities and buildings outside the excavation area and to limit migration of an existing contaminant plume, restrictions on dewatering outside the excavations, which would lower the groundwater table, were imposed.

Group Delta's Project Manager oversaw additional ground investigations to better characterize a potential aquitard (clay) layer and a subsequent pump test to demonstrate that there was no significant hydraulic connection between aquifers. As a result a combination of native clay plug at the bottom of excavation and cutter soil mix (CSM) wall was built to control groundwater. Groundwater monitoring was performed on a continuous basis for the duration of construction.

Anaheim Convention Center North Expansion Project | Anaheim, California



This expansion project to the Anaheim Convention Center added 200,000-square-feet and two levels of highly flexible, multi-use space to host concurrent events, capture new business, and retain current clients. The project also included additional parking and a connecting bridge between the existing length of the convention center and the new expansion.

Group Delta managed and was responsible for all inspection and materials testing including coordination of shop welding/non-destructive testing (NDT) in multiple states outside California. Group Delta also conducted observation of hundreds of augercast piles and provided Noise and Vibration Monitoring during Construction Phase.

A-Town Platinum Triangle | Anaheim, California



The new urbanist community of A-Town includes homes, townhomes, and flats along tree-lined avenues and pedestrian friendly walking paths. Anaheim's Platinum Triangle is envisioned to be a high density, mixed-use, urban environment that could include up to 9,500 dwelling units, 5-million-square-feet of office space and over 2-million-square-feet of commercial uses. Group Delta is the lead geotechnical engineering, materials testing and inspection firm for this project. Services provided also include seismic and foundation recommendations.

PROJECT REFERENCES

Below is a listing of references for recent, relevant projects. We encourage you to contact our clients regarding our past performance.

Project	Client Contact
Mill Creek Wetlands	Omar Dandashi, VP Planned Communities, 1156 North Mountain Ave., Upland, CA 91786 omar.dandashi@lewisop.com (909)-579-1291
Gerald Desmond Bridge	SFI Joint Venture, Bob Schraeder, 530 Technology Drive, Suite 300, Irvine, CA 92618 bschraeder@schimmick.com (949) 333-1500
Anaheim Regional Transportation Intermodal Center (ARTIC)	Rudy Emami, City of Anaheim Public Works Director 200 South Anaheim Boulevard, Ste. 276, Anaheim, CA 92803 REmami@anaheim.net (714) 765-5176
Westside Subway Extension	Meraj Ahmed, Senior Project Manager, Skanska USA Civil 5055 Wilshire Blvd, Los Angeles, CA 90036 meraj.ahmed@stsjv.com (619) 778-4366

SERVICES CONTRACT ACKNOWLEDGEMENT

Group Delta Consultants, Inc. has reviewed the Services Contract and accepts the terms, including, but not limited to, insurance requirements. We do not have any issues regarding the Services Contract.

Charles King Company

2841 Gardena Ave., Signal Hill, CA 90755

Ph (562) 426-2974

Email info@ckc.co

Contractor's License # 738236 DIR # 1000001537

SOQ For:

**Santiago Geologic Hazard Abatement District
Professional Well Maintenance and Monitoring Services**

Due 5/29/20 by 4:00 PM

Charles King Company
2841 Gardena Ave., Signal Hill, CA 90755
Ph (562) 426-2974
Email info@ckc.co
Contractor's License # 738236 DIR # 1000001537
www.ckc.co

May 29, 2020

Santiago GHAD Board of Directors
Attn: Matt Swanson, GHAD Manager
mswanson@engeo.com

Dear Mr. Swanson:

Please accept this as our firm's letter of offer for the SOQ for well maintenance and monitoring services. Our statement of qualifications and letter of offer shall remain valid for a period of 90 calendar days from the date of this submittal.

We are confident that our qualifications, capabilities, and experience will exceed the needs of this contract. Our firm would be an asset to the SGHAD, as many other Districts/Agencies have benefited with us on their team.

Charles King Company is a woman owned corporation, established in 1997. We are a general engineering contractor and infrastructure maintenance repair and rehabilitation company. We are equipped, qualified, and experienced to handle a wide range of work in size and complexity, including those requiring an urgent or emergency response.

Company Highlights:

- We have a broad range of capabilities - from installation of dewatering wells to having completed several multi-million dollar infrastructure construction projects.
- Currently maintain numerous on-call emergency contracts for infrastructure repairs and maintenance. We are immediate in our response and are service oriented.
- Charles King Company owns pumps, piping, low beds, dump trucks, crew trucks, excavators, backhoes, front end loaders, traffic control, traffic plates, shoring equipment, confined space entry equipment and more, with the intent of being able to provide immediate or emergency service without the reliance of outside services.
- Corporate Office is in Signal Hill CA.
 - 18 Full Time Employees, including 10 full time Project Support Staff, including Project Managers, Project Engineer, Dispatch, and Contract Administration. 8 Full time shop employees who support our field operations with equipment maintenance, support, and procurement required for responsiveness.
 - All Support as it relates to this RFQ will be through our Corporate Office.
- 30 Field Employees, consisting of Foreman, Operating Engineers, and Laborers.
- Total Current Employees 48.
- Focus on safety and trainings. Current EMR is .81. Employees are regularly trained in CPR/First Aid, Confined Space Entry Procedures, and Competent Person.

Charles King Company has experience with the On-Call process with the following entities:

City of San Diego
City of Los Angeles
City of Los Angeles
Long Beach Water Department
City of Glendale
County Sanitation Districts of Los Angeles County
Olivenhain Municipal Water District

Additionally, we have provided emergency services for to the following entities:

Orange County Sanitation Districts
City of Huntington Beach
Midway City Sanitary District
City of Seal Beach
County of San Diego
City of Glendale
Long Beach Water Department
City of Oceanside
Leucadia Wastewater District
County Sanitation Districts of Los Angeles County
Port of Long Beach
City of San Juan Capistrano
City of Laguna Beach
City of San Fernando
Costa Mesa Sanitary District

As you are aware, we have extensive experience as it relates to this SOQ. We have monitored and maintained the SGHAD system since 1998. This includes monthly monitoring and maintenance. It also includes specialty scope items such as well cleaning, well drilling support, discharge piping repairs, well box modifications, sink hole repairs (including paving), piezometer cleaning, electrical box replacements, and other various work items to support the system.

We acknowledge and accept the Standard Form Maintenance Services Agreement (Contract), in all aspects including insurance and indemnity requirements.

For your review, we have included the following:

- Fees Schedule for labor and equipment
- 3 Client References
- Organization Chart
- Key Staff Resume

Should you require any additional information during the evaluation process, please do not hesitate to contact Merritt King, Project Manager for this SOQ at phone number listed above, or email merritt@ckc.co.

Sincerely,

A handwritten signature in black ink, appearing to read 'Merritt King'. The signature is stylized with a large, rounded 'M' and a 'K' that has a small loop at the top.

Merritt King

Charles King Company - Owned Equipment - Emergency Equipment Rates (based on Caltrans)
EFFECTIVE 4/1/2020 - 3/31/2021

	Pg	Code	Rate	Delay Factor	OT Factor	Notes
Heavy Equipment and Attachments						
Hitachi 225 Excavator	9	1698ELC	99.28	0.18	0.84	
JD 85D Mini Excavator		HCECL	44.00	0.19	0.83	Misc Eq
JD 710J w/ backhoe		LDRRT	75.18	0.14	0.87	Misc Eq
JD710G w/backhoe	19	2722G	79.29	0.12	0.89	
JD 710C w/ Backhoe	19	2721	68.78	0.13	0.88	
710 Breaker	8	1140	43.99	0.23	0.80	
JD 310D w/ Backhoe	18	2507D	42.27	0.12	0.89	
JD 310G w/ Backhoe	18	2507G	44.39	0.12	0.89	
310 Breaker	26	MB-2900	19.00	0.50	1.00	Misc Eq
JD 644E Loader	19	2719	96.26	0.12	0.89	
Furakawa 3120 Loader	19	3120S	125.82	0.12	0.89	
JD 444J Loader	18	2521	56.58	0.12	0.89	
Cat 256C Skidsteer	32	TRACS[C]	29.34	0.12	0.89	w/Attachments
JD 328D Skidsteer	32	TRACS[C]	29.34	0.12	0.89	w/Attachments
Skidsteer Planer		TRACS	4.05	0.25	0.77	Misc Eq
IR Asphalt Zipper (Grinder)	22	0280	100.01	0.09	0.92	
Bomag Roller BW120-AD	25	1350	34.28	0.17	0.85	
Link Belt HSP18 Rough Terrain Crane	13	5505	68.42	0.14	0.88	
Reachlift	16	[HYLFT] 25-49	37.89	0.22	0.79	
Forklift 5000lb	6	[FKLFT] 040-060	39.74	0.22	0.79	
Trucks						
10 Wheel Dump Truck	35	[TRUON] 3AXL	71.55	0.18	0.83	
5-Yard Dump Truck (Bobtail)	35	[TRUON] 2AXL	54.69	0.18	0.83	
Lowbed or End Dump	35	[TRUON] 5AXL	90.06	0.18	0.83	
Tractor Truck w/ Trailer	34	[TRUCK] 60	79.48	0.12	0.89	Excludes Lowbed
Crew Truck	34	[TRUCK] 12-20	40.16	0.12	0.89	
Stake Bed	34	[TRUCK] 20-28	42.49	0.12	0.89	
Water Truck	34	[TRUCK] 36-48	64.07	0.12	0.89	
Pumper Truck		WASTK	74.36	0.29	0.74	Misc Eq
Misc. Equipment						
Air Compressor 185CFM	1	[AIRCP] 016-025	20.82	0.14	0.87	
90lb Hammer	1	[AIRTO] 60	1.6	0.61	0.41	
Rivet Buster	1	[AIRTO] 30-40	1.04	0.61	0.41	
Jumping Jack Compactor	4	[COMHG] 250	9.82	0.2	0.82	
Water Buffalo		[TRAIW] WATR	2.52	0.23	0.8	Misc Eq
Blowers		[FANSV]	36.31	0.37	0.65	Misc Eq
Fence Panel		FENCE	0.50	0.00	1.00	Misc Eq
Steel Plate 6x8		METAL [PLAT]	19.50	0.85	1.00	DAY Misc Eq
Steel Plate 6x10		METAL [PLAT]	25.00	0.85	1.00	DAY Misc Eq
Steel Plate 8x10		METAL [PLAT]	35.00	0.85	1.00	DAY Misc Eq
Steel Plate 8x12		METAL [PLAT]	38.00	0.85	1.00	DAY Misc Eq
Traffic Control						
Changeable Message Board	32	TRAFA [GEN2]	16.36	0.36	0.68	HOURL
Arrowboard	32	TRAFA [TM]	3.47	0.36	0.68	HOURL
Delineators	32	TRAFC [3DEL]	0.26	0.72	1.00	DAY
Traffic Cones	32	TRAFC [2TC] B100	0.16	0.72	1.00	DAY
Traffic Signs	32	TRAFC 6FSS	2.97	0.72	1.00	DAY
Type 2 Barricades (flasher)	32	[TRAFC]A2	0.51	0.72	1.00	DAY
Type 3 Barricades	32	[TRAFC]A2	0.26	0.72	1.00	DAY
K-Rail	22	[NONOP] 0820	0.49	0.56	1.00	DAY
Light Tower	6	ELGEN [2 LIGHT]	4.25	0.13	0.88	HOURL
Light Tower	6	ELGEN [4 LIGHT]	8.66	0.13	0.88	HOURL

Rates for SGHAD T&M Work

Note: Cal-Trans rates in force at time work is performed will apply.

Rates shown do not include standard 15% markup for owned equipment.

CHARLES KING COMPANY - Labor Pricing Schedule SGHAD

<u>Laborer - Group 1</u>			
Hourly Rate	Standard	Overtime	Doubletime
	\$115.00	\$150.00	\$175.00

<u>Laborer - Group 4</u>			
Hourly Rate	Standard	Overtime	Doubletime
	\$115.00	\$150.00	\$175.00

<u>Teamster</u>			
Hourly Rate	Standard	Overtime	Doubletime
	\$115.00	\$150.00	\$175.00

<u>Operator - Group 8</u>			
Hourly Rate	Standard	Overtime	Doubletime
	\$150.00	\$175.00	\$215.00

<u>Foreman</u>			
Hourly Rate	Standard	Overtime	Doubletime
	\$150.00	\$175.00	\$215.00

*Labor Rates above include all markups. This includes overhead that covers non-labor team members and other overhead costs.

Outside services/consultants will be billed at cost plus 15%

Charles King Company
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Email info@ckc.co
Contractor's License # 738236 DIR # 1000001537
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Project References

1. SANITAGO GEOLOGICAL HAZARD ABATEMENT DISTRICT
CONTACT: ENGEO
6 MORGAN, SUITE 162
IRVINE, CA 92618
Contact: Matt Swanson for Engeo (209) 684-7608 / mswanson@engeo.com
 - Well monitoring and maintenance, continuously since 1998
 - Anaheim Hill, CA

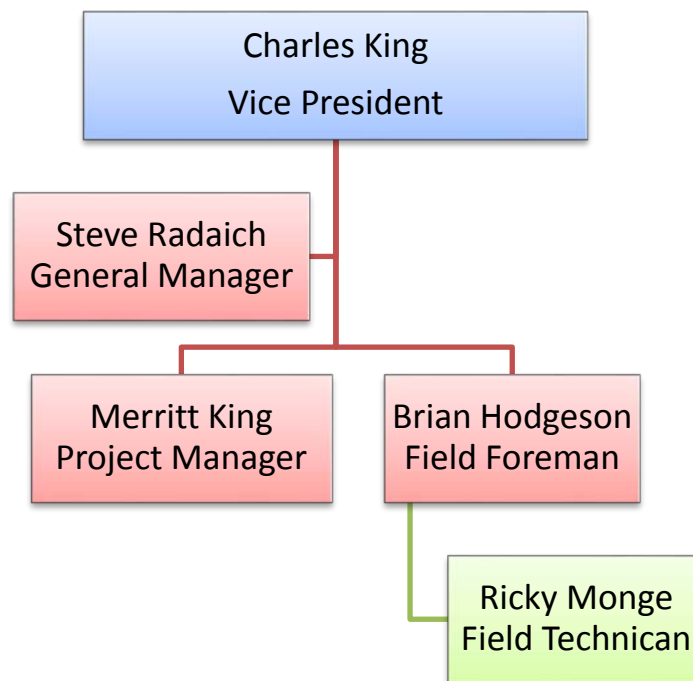
2. ORANGE COUNTY SANITATION DISTRICT
10844 ELLIS AVE,
FOUNTAIN VALLEY, CA
Contact: Cori Voss (714) 593-7549 / bvoss@ocsd.com
 - Maintenance & Repair Services (7-pack)
 - Various Locations in Orange County, CA
 - Pre-qualified to bid on various projects in and around Orange County including both OCSD Plant 1 and Plant 2

3. PORT OF LONG BEACH
415 W. OCEAN BLVD.
LONG BEACH, CA 90802
Contact: Ruben Trigueros (562) 283-7273 / ruben.trigueros@polb.com
 - On-Call Services for Underground Wet Utilities
 - Various locations in the Port of Long Beach, CA
 - Provide water and sewer services including dewatering on an urgent and on-call basis

4. CITY OF SIMI VALLEY
2929 TAPO CANYON RD.
SIMI VALLEY, CA 93063
Contact: Michael Kang (805) 583-6473 / mkang@simivalley.org
 - All projects within the City of Simi Valley
 - Various projects with the city of over the last 10+ years including dewatering and pumping

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Contractor's License # 738236 DIR # 1000001537
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SGHAD Organization Chart



Merritt King

Merritt@ckc.co

(310) 505-0176

SKILLS

General Construction

- Lead planning and scheduling of all construction projects.
- 24hr Coordination and Dispatch of field labor.
- 24hr Coordination, Dispatch and Schedule Maintenance of On-Site / Off-Site Heavy Equipment.
- Coordinate training of on-site safety and technical procedures.
- Confined Space / Competent Person / General Safety oversight.
- Assist Project Managers with daily accounting of on-site activities.
- Vendor Management and Scheduling.
- Public Relations with on-site agencies.
- Creation and submission of record drawings / as-built.

Project Management

- Prepare preliminary project submittals and schedules.
- Develop project strategies in alignment with business plans.
- Collaborate with prime / sub-contractors to determine timeline.
- Track and Update critical paths during project durations.
- Negotiate / Manage project change orders.
- End-to-End project delivery.

Office Management

- Adept in administration and management of Microsoft Office 2003 to Office 365.
- Administrate office staff per project.
- Contact and negotiation with outside vendors.
- Administer / Implement office security CCTV / Alarm Systems.
- Assist with HR / PR.
- Develop time tracking / scheduling procedures.

EXPERIENCE

Santiago Geologic Hazard Abatement District

2010 - Present

- Monthly maintenance of 33 deep vertical dewatering wells (up to 360' deep) within the City of Anaheim.
- Produce monthly dewatering reports.
- Communicate system status with project geotechnical engineers.
- Perform deep vertical well repairs and cleaning.
- Repair and maintenance on dewatering and electrical systems.

College Park East Sewer Replacement

City of Seal Beach

8/2011 – 5/2012

- Install and monitor dewatering for the excavation of 4000' of sewer.
- Install preliminary and onsite dewatering operations.
- Remove and replace 4000' of 8" to 15" Sewer.
- Restore 11800 SF of surface improvements including landscaping and irrigation.

Hamilton Avenue Storm Drain Repair

City of Huntington Beach

2013

- Install and maintain well point dewatering system for the rehabilitation of a 48" Storm Drain.
- Excavate and bury dewatering discharge line including coring into discharge manhole.

NRG Long Beach Generation Station Dewatering Well Relocation

Port of Long Beach

2015

- Abandon and Relocate 5ea. Dewatering wells located within NRG's Generation Station.
- Exploration excavation to find existing dewatering wells.
- Exploration drilling to find suitable location for new dewatering wells.
- Install and monitor new dewatering wells.

On-Call Service for Wet Utilities

Port of Long Beach

2019 - Present

- Install various underground utilities within the Port of Long Beach.
- Various styles of on-site dewatering including in trench dewatering and pre-excavation dewatering.

City of Long Beach Pump Repair's

2015 - Present

- Repair and maintenance of various dewatering pumps throughout Long Beach.
- Assessment of existing pump facilities.

Steve Radaich

Experience

20 years of experience in public works contracting, with an emphasis on pipeline replacement/ repair projects with urgent or emergency response. Successful completion of hundreds of projects for most municipalities in Southern California.

2001 – Present Charles King Company, Signal Hill, CA
General Manager / Project Manager

Project References

Dist. 6/Newport Blvd. Sewer Rehabilitation

- Owner: Orange County Sanitation District
- Contract Amount: \$3,900,000
- Utilized P6 Scheduling Software
- Manhole Construction, Pipe bursting, CIPP Lining and Bypass of 15”/18”/21”/24” Sewer Main

6th and Mission Emergency Sewer Repair

- Owner: City of Los Angeles
- Was first point of contact for response to truck sewer collapse resulting in 2.4M gallon spill.
- Directed all response efforts on 24/7 basis.
- Sewer Bypass operated on continuous basis for 11 months.

4th Vermont Shatto Sewer Rehabilitation

- Owner: City of Los Angeles
- Excavation to depths of 60’
- Construction of sewer manholes, pipeline repairs, and rehabilitation.
- Utilized soil freeze technologies for shoring and groundwater contamination.

On Call Emergency Sewer and Water Repairs

- Owner: Long Beach Water Department
- Respond to various sewer and water emergencies at treatment plants, pump stations, or City right of way.

Education & Other

University of California, Santa Barbara
B.A. Business Economics

Engineering Contractor’s Association
Previous Board of Directors

**BOARD OF DIRECTORS OF THE
SANTIAGO GEOLOGIC HAZARD ABATEMENT DISTRICT**

RESOLUTION NO. 2020/01

**RESOLUTION Santiago Geologic Hazard Abatement District (Santiago GHAD)
Authorizing the Board Chair to Execute a Professional Services Agreement for GHAD
Manager Services, for a Period from July 1, 2020, to June 30, 2021.**

WHEREAS, on March 16, 1999, the Anaheim City Council adopted Resolution No. 99R-50 approving and ordering the formation of the Santiago Geologic Hazard Abatement District ("Santiago GHAD"); and

WHEREAS, pursuant to Public Resources Code Section 26586, the Board of Directors may appoint other officers of the GHAD and delegate such powers of the district as may be appropriate in the circumstances; and

WHEREAS, the Contract Review Subcommittee has reviewed the attached Professional Services Agreement; and

The Santiago Board of Directors HEREBY RESOLVES THAT:

1. The Santiago GHAD Board of Directors does hereby authorize the Santiago GHAD Chair to execute the attached Agreement with _____ to provide GHAD Manager Services, Proposition 218, and Support services for a period from July 1, 2020, to June 30, 2021, not to exceed \$_____; and
2. The recitals are incorporated herein by this reference; and
3. This Resolution shall become effective immediately upon its passage and adoption.

DATED: June 9, 2020

I, Karen Holthe, Clerk of the Santiago Geologic Hazard Abatement District, certify that the foregoing resolution was duly adopted by the Board of Directors of the District at a regular meeting held on the 9th day of June 2020 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Clerk of the Santiago GHAD Board

SANTIAGO GEOLOGIC HAZARD ABATEMENT DISTRICT SERVICES CONTRACT

This Services Contract, dated July 1, 2020, for reference only, is by and between _____ ("Manager" or "GHAD Manager") and the Santiago Geologic Hazard Abatement District ("Santiago GHAD"), a political subdivision of the State of California, (collectively "parties") agree as follows.

1. Purpose of Contract
 - a. Santiago GHAD requires certain professional services relating to engineering, geologic and land management consulting and,
 - b. Manager is qualified to provide these services and is willing to provide them according to all of the terms of this contract, including all insurance requirements set forth in this contract.
2. Duties of Manager
 - a. Manager agrees to perform services described in Exhibit A, "Scope of Services and Fee Estimate," which is attached to, and incorporated in, this contract by this reference. Manager agrees to perform these services in general accordance with the standards of its profession.
 - b. In addition to the services described above, the parties may from time to time agree in writing that Manager, for additional compensation, shall perform such additional services as may be mutually agreed to.
3. Time of Performance
 - a. This contract shall not be effective and no payments to Manager shall be made until:
 - (i) Santiago GHAD has received satisfactory evidence that Manager has met all of the insurance requirements of Sections 10 and 11 of this contract and
 - (ii) All required signatures, including but not limited to the signature of the Chair of the Santiago GHAD, have been obtained.
 - b. The effective date of this contract shall be the date on which the last signature is affixed or on receipt of satisfactory evidence of insurance, whichever is later.
 - c. The services of Manager shall begin no sooner than the effective date and shall continue for a period of one year.
4. Compensation
 - a. From and after the effective date of this contract, Santiago GHAD agrees to pay Manager in the manner described in Exhibit B. With the exception of the Administration fee, compensation for services performed pursuant hereto shall be on a time-and-expense basis. The Administration fee is a fixed fee amount as provided in the annual budget approved by the Board of Directors, payable on a monthly basis in arrears. Actual costs will be computed at the rates listed in the "Manager's Fee Schedule" attached as Exhibit "B" and incorporated herein by reference. The Manager's Fee Schedule shall be updated annually and shall be incorporated herein without further amendment hereto. The annual compensation limit shall be determined by the GHAD Board by resolution for each fiscal year (July 1 through June 30) starting in fiscal year 2020/21 and such determination shall be incorporated herein without further amendment hereto. Estimated fees from July 1, 2020, to June 30, 2021, are included in Exhibit A.
 - b. Manager may bill Santiago GHAD for work done in the preceding month on a monthly basis. With the exception of the monthly Administration fee, as provided in the annual budget

approved by the Board of Directors, the billings shall contain, as a minimum, total hours worked on the project by position, hourly rates in accordance with the rates described in Exhibit B, a total amount due for the period and a contract payment status summary showing total billed to date compared to total authorized contract amount. In addition, the Manager shall describe work that was completed during the monthly billing period both in qualitative terms, e.g. listing project activities, and in quantitative terms by relating the work completed as a percent complete of the appropriate task in the Scope of Work and Fee Estimate (Exhibit A).

- c. The parties shall agree in writing to any changes in compensation due to changes in Manager's services under Section 1a. above prior to performance of those changed services.
- d. To the extent that the Manager's insurance documentation is not in compliance with the requirements of this contract and the GHAD Legal Counsel is required to intervene to explain and obtain the proper documentation from the Manager's insurer, the cost of the GHAD Legal Counsel's services will be deducted from the contract price to which Manager would otherwise be entitled under the terms of this contract.

5. Manager's Status

Manager is an independent contractor and is solely responsible for its acts or omissions. Manager (including its agents, servants, and employees) is not an employee of the Santiago GHAD, and is only authorized to act as Santiago GHAD's agent or representative for those specific purposes described in Exhibit A.

6. Conflict of Interest

Manager understands that its professional responsibility is solely to Santiago GHAD. Manager represents that it presently has no interest and will not acquire any direct or indirect interest that would conflict with its performance of this contract. Manager shall not employ a person having such an interest in the performance of this contract.

Manager and its agents or employees working under this contract shall submit statements of economic interest under the Political Reform Act (Government Code Section 81000 et seq.) if requested to do so by Santiago GHAD.

7. Ownership of Work

All documents furnished to Manager by Santiago GHAD and all reports or work product (including electronically stored documents) prepared by Manager under this contract are the property of Santiago GHAD and Manager and copies shall be given to Santiago GHAD at the completion of Manager's services.

8. Assignment; Subcontracts

Manager's services are considered unique and personal. Manager shall not assign or transfer this interest or obligation under this contract without City's prior written consent. Manager shall not subcontract its duties under this contract without Santiago GHAD's prior written consent.

9. Licenses

Manager represents to Santiago GHAD that it has all licenses, permits, qualifications, insurance and approvals of whatsoever nature which are legally required of Manager.

10. Insurance—Types and Limits

Manager, at Manager's own expense, shall maintain for the duration of this agreement the following insurance policies with insurers possessing a Best's rating of no less than A+.

- a. Workers' Compensation Coverage. Manager shall maintain Workers' Compensation insurance and employer's liability insurance for Manager's employees in accordance with California law. In addition, Manager shall require each subcontractor approved by the City to similarly maintain workers' compensation insurance and employer's liability insurance for all of subcontractor's employees in accordance with California law.
- b. General Liability Coverage. Manager shall maintain commercial general liability insurance in an amount not less than five million dollars (\$5,000,000) per occurrence for bodily injury, personal injury and property damage. If a commercial general liability insurance policy or other policy with a general aggregate limit is used, either (1) the general aggregate limit shall apply separately to the work to be performed under this contract, or (2) the general aggregate limit shall be at least twice the required occurrence limit.
- c. Automobile Liability Coverage. Manager shall maintain automobile liability insurance in amounts not less than one million dollars (\$1,000,000) per occurrence for bodily injury and property damage for all activities arising out of or in connection with the work to be performed under this contract.
- d. Professional Liability Insurance. Manager shall maintain professional liability insurance to cover claims alleging that may be the result of errors, omissions or negligent acts of Manager or the agents of Manager on this contract. Such insurance shall be in an amount of not less than three million dollars (\$3,000,000) per claim made, with a deductible provision of not more than \$150,000.

Manager's failure to provide or maintain the insurance required by this contract shall not affect Manager's obligations under this contract.

11. Additional Insurance Requirements

- a. Additional Insureds. Santiago GHAD and its officers, employees, agents and volunteers shall be covered as additional insureds for general liability and automobile liability coverage with respect to liability arising out of work performed by or on behalf of Manager, including materials, parts or equipment furnished in connection with such work or operations.
- b. Manager's Policy Primary. This additional insured coverage provided Santiago GHAD shall be primary and noncontributory to any insurance maintained by Santiago GHAD, including any self-insured retention Santiago GHAD may have.

12. Evidence of Insurance

Manager shall provide (1) certificates of insurance and (2) original written endorsements as evidence of the insurance coverage required by this contract. Certificates of such insurance and endorsements of the insurance required under Sections 10 and 11 shall be filed with Santiago GHAD and are considered an integral part of this contract, which shall not become effective until satisfactory evidence of insurance has been received by the Santiago GHAD.

13. Indemnification

To the fullest extent allowed by law, Manager shall indemnify and hold harmless Santiago GHAD and its board members, officers, employees, agents and volunteers from and against any and all claims, demands, costs, attorney fees or expert fees to the extent arising out of or resulting from the negligence, recklessness, or willful misconduct of Manager and its agents in the performance of services under this contract. Manager shall not be obligated to indemnify Santiago GHAD against liability for damages for death or bodily injury to persons, injury to property, or any other loss, damage or expense arising from the sole negligence, willful misconduct or defects in design by Santiago GHAD or its agents, servants or independent contractors who are directly responsible to Santiago GHAD or arising from Santiago GHAD's active negligence. **Manager's** aggregate liability hereunder shall be limited by Santiago **GHAD** to One Million Dollars (\$1,000,000) regardless of the legal theory under which such liability is imposed.

14. Equal Employment Opportunity

Manager is an equal opportunity employer and agrees to comply with applicable regulations governing equal employment opportunity.

15. Notices

Any notice to be given under this contract shall be in writing and deemed given when personally delivered or deposited in the mail (certified or registered) addressed to the parties as follows:

GHAD Clerk

Santiago Geologic Hazard Abatement District
Attention: GHAD Clerk

GHAD Manager

Santiago Geologic Hazard Abatement District
General Manager

16. Litigation

If either party brings an action to enforce this contract, the prevailing party is entitled to reasonable attorneys' fees and costs, including but not limited to expert witness fees and discovery costs.

17. Waivers

Waiver of a breach or default under this contract shall not constitute a continuing waiver or a waiver of a subsequent breach of the same or any other provision of this contract.

18. Modification

No waiver, modification or termination of this contract is valid unless made in writing.

19. Severability

If any term of this contract is held invalid by a court of competent jurisdiction, the remainder of this contract shall remain in effect.

20. Termination

- a. At any time and without cause, either party may terminate this contract by giving 30 calendar days written notice. In the event of termination without cause, Santiago GHAD shall pay Manager for services rendered to date, and Manager shall deliver any work product to Santiago GHAD upon termination, whether complete or incomplete.
- b. Santiago GHAD may terminate this contract for cause upon giving Manager 10 days written notice describing Manager's substantial failure to meet its obligations. If Manager has not

cured the defects in its performance within 10 days, Santiago GHAD may terminate the contract. Manager shall give Santiago GHAD all work done toward completion of its services, whether complete or incomplete. Santiago GHAD shall pay Manager for the services satisfactorily rendered to date.

21. Entire Agreement

This contract and its exhibits and attachments set forth the entire understanding between the parties. Changes or amendments shall be made in writing and signed by the parties.

Santiago GHAD

Manager

By _____

By: _____

Name: _____

Name: _____

Title: _____

Title: _____

Date: _____

Date: _____

Attachments

1. Exhibit A — Scope of Services
2. Exhibit B — Payment Schedule
3. Exhibit C — Acknowledgement of Insurance Requirements (signed by Manager)
4. Certificates of Insurance (4): workers' compensation, general, automobile, professional liability
5. Endorsements (2): general, automobile liability

**BOARD OF DIRECTORS OF THE
SANTIAGO GEOLOGIC HAZARD ABATEMENT DISTRICT**

RESOLUTION NO. 2020/02

**RESOLUTION: Santiago Geologic Hazard Abatement District (Santiago GHAD)
Authorizing the Board Chair to Execute an Addendum to Professional Services
Agreement for GHAD Dewatering Monitoring and Consultation Services, for a
Period from July 1, 2020, To June 30, 2021**

WHEREAS, on March 16, 1999, the Anaheim City Council adopted Resolution No. 99R-50 approving and ordering the formation of the Santiago Geologic Hazard Abatement District ("Santiago GHAD"); and

WHEREAS, the Contract Review Subcommittee and Board of Directors have reviewed the submitted statements of qualifications; and

The Santiago Board of Directors HEREBY RESOLVES THAT:

1. The Santiago GHAD Board of Directors does hereby authorize the Santiago GHAD Chair to execute the attached Addendum to Professional Services Agreement with _____ to provide Dewatering Monitoring and Consultation services for a period from July 1, 2020, to June 30, 2021, not to exceed \$_____; and
2. The recitals are incorporated herein by this reference; and
3. This Resolution shall become effective immediately upon its passage and adoption.

DATED: June 9, 2020

I, Karen Holthe, Clerk of the Santiago Geologic Hazard Abatement District, certify that the foregoing resolution was duly adopted by the Board of Directors of the District at a regular meeting held on the 9th day of June 2020 by the following vote:

AYES:

NOES:

ABSENT

ABSTAIN:

Clerk of the Santiago GHAD Board

SANTIAGO GEOLOGIC HAZARD ABATEMENT DISTRICT SERVICES CONTRACT

This Services Contract ("Agreement"), dated July 1, 2020, for reference only, is by and between _____ ("GHAD Services Consultant") and the Santiago Geologic Hazard Abatement District ("Santiago GHAD"), a political subdivision of the State of California, (collectively "parties") agree as follows.

1. Purpose of Contract

- a. Santiago GHAD requires certain professional services relating to groundwater monitoring and consultation and,
- b. GHAD Services Consultant is qualified to provide these services and is willing to provide them according to all of the terms of this contract, including all insurance requirements set forth in this contract.

2. Duties of GHAD Services Consultant

- a. GHAD Services Consultant agrees to perform services described in Exhibit A, "Scope of Services and Fee Estimate," which is attached to, and incorporated in, this contract by this reference. GHAD Services Consultant agrees to perform these services in general accordance with the standards of its profession.
- b. In addition to the services described above, the parties may from time to time agree in writing that GHAD Services Consultant, for additional compensation, shall perform such additional services as may be mutually agreed to.

3. Time of Performance

- a. This contract shall not be effective and no payments to GHAD Services Consultant shall be made until:
 - (i) Santiago GHAD has received satisfactory evidence that GHAD Services Consultant has met all of the insurance requirements of Sections 10 and 11 of this contract and
 - (ii) All required signatures, including but not limited to the signature of the Chair of the Santiago GHAD, have been obtained.
- b. The effective date of this contract shall be the date on which the last signature is affixed or on receipt of satisfactory evidence of insurance, whichever is later.
- c. The services of GHAD Services Consultant shall begin no sooner than the effective date and shall continue for a period of one year.

4. Compensation

- a. From and after the effective date of this contract, Santiago GHAD agrees to pay GHAD Services Consultant in the manner described in Exhibit B. With the exception of the Administration fee, compensation for services performed pursuant hereto shall be on a time-and-expense basis. The Administration fee is a fixed fee amount as provided in the annual budget approved by the Board of Directors, payable on a monthly basis in arrears. Actual costs will be computed at the rates listed in the "GHAD Services Consultant's Fee Schedule" attached as Exhibit "B" and incorporated herein by reference. The GHAD Services Consultant's Fee Schedule shall be updated annually and shall be incorporated herein without further amendment hereto. The annual compensation limit shall be determined by the GHAD Board by resolution for each fiscal year (July 1 through June 30) starting in fiscal year 2020/21

and such determination shall be incorporated herein without further amendment hereto. Estimated fees from July 1, 2020, to June 30, 2021, are included in Exhibit A.

- b. GHAD Services Consultant may bill Santiago GHAD for work done in the preceding month on a monthly basis. With the exception of the monthly Administration fee, as provided in the annual budget approved by the Board of Directors, the billings shall contain, as a minimum, total hours worked on the project by position, hourly rates in accordance with the rates described in Exhibit B, a total amount due for the period and a contract payment status summary showing total billed to date compared to total authorized contract amount. In addition, the GHAD Services Consultant shall describe work that was completed during the monthly billing period both in qualitative terms, e.g. listing project activities, and in quantitative terms by relating the work completed as a percent complete of the appropriate task in the Scope of Work and Fee Estimate (Exhibit A).
- c. The parties shall agree in writing to any changes in compensation due to changes in GHAD Services Consultant's services under Section 1a. above prior to performance of those changed services.
- d. To the extent that the GHAD Services Consultant's insurance documentation is not in compliance with the requirements of this contract and the GHAD Legal Counsel is required to intervene to explain and obtain the proper documentation from the GHAD Services Consultant's insurer, the cost of the GHAD Legal Counsel's services will be deducted from the contract price to which GHAD Services Consultant would otherwise be entitled under the terms of this contract.

5. GHAD Services Consultant's Status

GHAD Services Consultant is an independent contractor and is solely responsible for its acts or omissions. GHAD Services Consultant (including its agents, servants, and employees) is not an employee of the Santiago GHAD, and is only authorized to act as Santiago GHAD's agent or representative for those specific purposes described in Exhibit A.

6. Conflict of Interest

GHAD Services Consultant understands that its professional responsibility is solely to Santiago GHAD. GHAD Services Consultant represents that it presently has no interest and will not acquire any direct or indirect interest that would conflict with its performance of this contract. GHAD Services Consultant shall not employ a person having such an interest in the performance of this contract.

GHAD Services Consultant and its agents or employees working under this contract shall submit statements of economic interest under the Political Reform Act (Government Code Section 81000 et seq.) if requested to do so by Santiago GHAD.

7. Ownership of Work

All documents furnished to GHAD Services Consultant by Santiago GHAD and all reports or work product (including electronically stored documents) prepared by GHAD Services Consultant under this contract are the property of Santiago GHAD and GHAD Services Consultant and copies shall be given to Santiago GHAD at the completion of GHAD Services Consultant's services.

8. Assignment; Subcontracts

GHAD Services Consultant's services are considered unique and personal. GHAD Services Consultant shall not assign or transfer this interest or obligation under this contract without GHAD's prior written consent. GHAD Services Consultant shall not subcontract its duties under this contract without Santiago GHAD's prior written consent.

9. Licenses

GHAD Services Consultant represents to Santiago GHAD that it has all licenses, permits, qualifications, insurance and approvals of whatsoever nature which are legally required of GHAD Services Consultant.

10. Insurance—Types and Limits

GHAD Services Consultant, at GHAD Services Consultant's own expense, shall maintain for the duration of this Agreement the following insurance policies with insurers possessing a Best's rating of no less than A+.

- a. Workers' Compensation Coverage. GHAD Services Consultant shall maintain Workers' Compensation insurance and employer's liability insurance for GHAD Services Consultant's employees in accordance with California law. In addition, GHAD Services Consultant shall require each subcontractor approved by the City to similarly maintain workers' compensation insurance and employer's liability insurance for all of subcontractor's employees in accordance with California law.
- b. General Liability Coverage. GHAD Services Consultant shall maintain commercial general liability insurance in an amount not less than five million dollars (\$5,000,000) per occurrence for bodily injury, personal injury and property damage. If a commercial general liability insurance policy or other policy with a general aggregate limit is used, either (1) the general aggregate limit shall apply separately to the work to be performed under this contract, or (2) the general aggregate limit shall be at least twice the required occurrence limit.
- c. Automobile Liability Coverage. GHAD Services Consultant shall maintain automobile liability insurance in amounts not less than one million dollars (\$1,000,000) per occurrence for bodily injury and property damage for all activities arising out of or in connection with the work to be performed under this contract.
- d. Professional Liability Insurance. GHAD Services Consultant shall maintain professional liability insurance to cover claims alleging that may be the result of errors, omissions or negligent acts of GHAD Services Consultant or the agents of GHAD Services Consultant on this contract. Such insurance shall be in an amount of not less than three million dollars (\$3,000,000) per claim made, with a deductible provision of not more than \$150,000.

GHAD Services Consultant's failure to provide or maintain the insurance required by this contract shall not affect GHAD Services Consultant's obligations under this contract.

11. Additional Insurance Requirements

- a. Additional Insureds. Santiago GHAD and its officers, employees, agents and volunteers shall be covered as additional insureds for general liability and automobile liability coverage with respect to liability arising out of work performed by or on behalf of GHAD Services Consultant, including materials, parts or equipment furnished in connection with such work or operations.
- b. GHAD Services Consultant's Policy Primary. This additional insured coverage provided Santiago GHAD shall be primary and noncontributory to any insurance maintained by Santiago GHAD, including any self-insured retention Santiago GHAD may have.

12. Evidence of Insurance

GHAD Services Consultant shall provide (1) certificates of insurance and (2) original written endorsements as evidence of the insurance coverage required by this contract. Certificates of such insurance and endorsements of the insurance required under Sections 10 and 11 shall be

filed with Santiago GHAD and are considered an integral part of this contract, which shall not become effective until satisfactory evidence of insurance has been received by the Santiago GHAD.

13. Indemnification

To the fullest extent allowed by law, GHAD Services Consultant shall indemnify and hold harmless Santiago GHAD and its board members, officers, employees, agents and volunteers from and against any and all claims, demands, costs, attorney fees or expert fees to the extent arising out of or resulting from the negligence, recklessness, or willful misconduct of GHAD Services Consultant and its agents in the performance of services under this contract. GHAD Services Consultant shall not be obligated to indemnify Santiago GHAD against liability for damages for damages for death or bodily injury to persons, injury to property, or any other loss, damage or expense arising from the sole negligence, willful misconduct or defects in design by Santiago GHAD or its agents, servants or independent contractors who are directly responsible to Santiago GHAD or arising from Santiago GHAD's active negligence. **GHAD Services Consultant's** aggregate liability hereunder shall be limited by Santiago **GHAD** to One Million Dollars (\$1,000,000) regardless of the legal theory under which such liability is imposed.

14. Equal Employment Opportunity

GHAD Services Consultant is an equal opportunity employer and agrees to comply with applicable regulations governing equal employment opportunity.

15. Notices

Any notice to be given under this contract shall be in writing and deemed given when personally delivered or deposited in the mail (certified or registered) addressed to the parties as follows:

GHAD Clerk

Santiago Geologic Hazard Abatement District
Attention: GHAD Clerk

GHAD Services Consultant

Santiago Geologic Hazard Abatement District
GHAD Services Consultant

16. Litigation

If either party brings an action to enforce this contract, the prevailing party is entitled to reasonable attorneys' fees and costs, including but not limited to expert witness fees and discovery costs.

17. Waivers

Waiver of a breach or default under this contract shall not constitute a continuing waiver or a waiver of a subsequent breach of the same or any other provision of this contract.

18. Modification

No waiver, modification or termination of this contract is valid unless made in writing.

19. Severability

If any term of this contract is held invalid by a court of competent jurisdiction, the remainder of this contract shall remain in effect.

20. Termination

- a. At any time and without cause, either party may terminate this contract by giving 30 calendar days written notice. In the event of termination without cause, Santiago GHAD shall pay GHAD

Services Consultant for services rendered to date, and GHAD Services Consultant shall deliver any work product to Santiago GHAD upon termination, whether complete or incomplete.

- b. Santiago GHAD may terminate this contract for cause upon giving GHAD Services Consultant 10 days written notice describing GHAD Services Consultant's substantial failure to meet its obligations. If GHAD Services Consultant has not cured the defects in its performance within 10 days, Santiago GHAD may terminate the contract. GHAD Services Consultant shall give Santiago GHAD all work done toward completion of its services, whether complete or incomplete. Santiago GHAD shall pay GHAD Services Consultant for the services satisfactorily rendered to date.

21. Entire Agreement

This contract and its exhibits and attachments set forth the entire understanding between the parties. Changes or amendments shall be made in writing and signed by the parties.

Santiago GHAD

GHAD Services Consultant

By: _____

By: _____

Name: _____

Name: _____

Title: _____

Title: _____

Date: _____

Date: _____

Attachments

1. Exhibit A — Scope of Services
2. Exhibit B — Payment Schedule
3. Exhibit C — Acknowledgement of Insurance Requirements (signed by GHAD Services Consultant)
4. Certificates of Insurance (4): workers' compensation, general, automobile, professional liability
5. Endorsements (2): general, automobile liability

**BOARD OF DIRECTORS OF THE
SANTIAGO GEOLOGIC HAZARD ABATEMENT DISTRICT**

RESOLUTION NO. 2020/03

**RESOLUTION Santiago Geologic Hazard Abatement District (Santiago GHAD)
Authorizing the Board Chair to Execute an Agreement for GHAD Clerk Services, for a
Period from July 1, 2020 to June 30, 2021**

WHEREAS, on March 16, 1999, the Anaheim City Council adopted Resolution No. 99R-50 approving and ordering the formation of the Santiago Geologic Hazard Abatement District ("Santiago GHAD"); and

WHEREAS, pursuant to Public Resources Code section 26584, the Board of Directors must appoint a Clerk; and

WHEREAS, the Contract Review Subcommittee has reviewed the attached agreement; and

The Santiago Board of Directors HEREBY RESOLVES THAT:

1. The Santiago GHAD Board of Directors does hereby authorize the Santiago GHAD Chair to execute the attached Agreement with_____ to provide GHAD Clerk services for a period from July 1, 2020 to June 30, 2021 not to exceed \$_____; and
2. The recitals are incorporated herein by this reference; and
3. This Resolution shall become effective immediately upon its passage and adoption.

DATED: June 9, 2020

I, Karen Holthe, Clerk of the Santiago Geologic Hazard Abatement District, certify that the foregoing resolution was duly adopted by the Board of Directors of the District at a regular meeting held on the 9th day of June 2020 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Clerk of the Santiago GHAD Board

SANTIAGO GEOLOGIC HAZARD ABATEMENT DISTRICT SERVICES CONTRACT

This Services Contract, dated July 1, 2020, for reference only, is by and between _____ ("Clerk" or "GHAD Clerk") and the Santiago Geologic Hazard Abatement District ("Santiago GHAD"), a political subdivision of the State of California, (collectively "parties") agree as follows.

1. Purpose of Contract

- a. Santiago GHAD requires certain professional services relating to assisting the GHAD Board of Directors in administration of the GHAD, and
- b. Clerk is qualified to provide these services and is willing to provide them according to all the terms of this contract, including all insurance requirements set forth in this contract.

2. Duties of Clerk

- a. Clerk agrees to perform services described in Exhibit A, "Scope of Services and Fee Estimate," which is attached to, and incorporated in, this contract by this reference. Clerk agrees to perform these services in general accordance with the standards of its profession.
- b. In addition to the services described above, the parties may from time to time agree in writing that Clerk, for additional compensation, shall perform such additional services as may be mutually agreed to.

3. Time of Performance

- a. This contract shall not be effective and no payments to Clerk shall be made until:
 - (i) Santiago GHAD has received satisfactory evidence that Clerk has met all the insurance requirements of Sections 10 and 11 of this contract, and
 - (ii) All required signatures, including but not limited to the signature of the Chair of the Santiago GHAD, have been obtained.
- b. The effective date of this contract shall be the date on which the last signature is affixed or on receipt of satisfactory evidence of insurance, whichever is later.
- c. The services of Clerk shall begin no sooner than the effective date and shall continue for a period of one year.

4. Compensation

- a. From and after the effective date of this contract, Santiago GHAD agrees to pay Clerk in the manner described in Exhibit B. With the exception of the Administration fee, additional compensation for services performed pursuant hereto shall be on a time-and-expense basis. The Administration fee is a fixed fee amount as provided in the annual budget approved by the Board of Directors, payable on a monthly basis in arrears. Actual costs will be computed at the rates listed in the "Clerk's Fee Schedule" attached as Exhibit "B" and incorporated herein by reference. The Clerk's Fee Schedule shall be updated annually and shall be incorporated herein without further amendment hereto. The annual compensation limit shall be determined by the GHAD Board by resolution for each fiscal year (July 1 through June 30) starting in fiscal year 2020/21 and such determination shall be incorporated herein without further amendment hereto. Estimated fees from July 1, 2020, to June 30, 2021, are included in Exhibit A.
- b. Clerk may bill Santiago GHAD for work done in the preceding month on a monthly basis. With the exception of the monthly Administration fee as provided in the annual budget approved by

the Board of Directors, the billings shall contain, as a minimum, total hours worked on the project by position, hourly rates in accordance with the rates described in Exhibit B, a total amount due for the period and a contract payment status summary showing total billed to date compared to total authorized contract amount. In addition, the Clerk shall describe work that was completed during the monthly billing period both in qualitative terms, e.g. listing project activities, and in quantitative terms by relating the work completed as a percent complete of the appropriate task in the Scope of Work and Fee Estimate (Exhibit A).

- c. The parties shall agree in writing to any changes in compensation due to changes in Clerk's services under Section 1a. above prior to performance of those changed services.
- d. To the extent that the Clerk's insurance documentation is not in compliance with the requirements of this contract and the GHAD Legal Counsel is required to intervene to explain and obtain the proper documentation from the Clerk's insurer, the cost of the GHAD Legal Counsel's services will be deducted from the contract price to which Clerk would otherwise be entitled under the terms of this contract.

5. Clerk's Status

Clerk is an independent contractor and is solely responsible for its acts or omissions. Clerk (including its agents, servants, and employees) is not an employee of the Santiago GHAD and is only authorized to act as Santiago GHAD's agent or representative for those specific purposes described in Exhibit A.

6. Conflict of Interest

Clerk understands that its professional responsibility is solely to Santiago GHAD. Clerk represents that it presently has no interest and will not acquire any direct or indirect interest that would conflict with its performance of this contract. Clerk shall not employ a person having such an interest in the performance of this contract.

Clerk and its agents or employees working under this contract shall submit statements of economic interest under the Political Reform Act (Government Code Section 81000 et seq.) if requested to do so by Santiago GHAD.

7. Ownership of Work

All documents furnished to Clerk by Santiago GHAD and all reports or work product (including electronically stored documents) prepared by Clerk under this contract are the property of Santiago GHAD and Clerk and copies shall be given to Santiago GHAD at the completion of Clerk's services.

8. Assignment; Subcontracts

Clerk's services are considered unique and personal. Clerk shall not assign or transfer this interest or obligation under this contract without City's prior written consent. Clerk shall not subcontract its duties under this contract without Santiago GHAD's prior written consent.

9. Licenses

Clerk represents to Santiago GHAD that it has all licenses, permits, qualifications, insurance and approvals of whatsoever nature which are legally required of Clerk.

10. Insurance—Types and Limits

Clerk, at Clerk's own expense, shall maintain for the duration of this agreement the following insurance policies with insurers possessing a Best's rating of no less than A+.

- a. Workers' Compensation Coverage. Clerk shall maintain Workers' Compensation insurance and employer's liability insurance for Clerk's employees in accordance with California law. In addition, Clerk shall require each subcontractor approved by the City to similarly maintain workers' compensation insurance and employer's liability insurance for all of subcontractor's employees in accordance with California law.
- b. General Liability Coverage. Clerk shall maintain commercial general liability insurance in an amount not less than five million dollars (\$5,000,000) per occurrence for bodily injury, personal injury and property damage. If a commercial general liability insurance policy or other policy with a general aggregate limit is used, either (1) the general aggregate limit shall apply separately to the work to be performed under this contract, or (2) the general aggregate limit shall be at least twice the required occurrence limit.
- c. Automobile Liability Coverage. Clerk shall maintain automobile liability insurance in amounts not less than one million dollars (\$1,000,000) per occurrence for bodily injury and property damage for all activities arising out of or in connection with the work to be performed under this contract.
- d. Professional Liability Insurance. Clerk shall maintain professional liability insurance to cover claims alleging that may be the result of errors, omissions or negligent acts of Clerk or the agents of Clerk on this contract. Such insurance shall be in an amount of not less than three million dollars (\$3,000,000) per claim made, with a deductible provision of not more than \$150,000.

Clerk's failure to provide or maintain the insurance required by this contract shall not affect Clerk's obligations under this contract.

11. Additional Insurance Requirements

- a. Additional Insureds. Santiago GHAD and its officers, employees, agents and volunteers shall be covered as additional insureds for general liability and automobile liability coverage with respect to liability arising out of work performed by or on behalf of Clerk, including materials, parts or equipment furnished in connection with such work or operations.
- b. Clerk's Policy Primary. This additional insured coverage provided Santiago GHAD shall be primary and noncontributory to any insurance maintained by Santiago GHAD, including any self-insured retention Santiago GHAD may have.

12. Evidence of Insurance

Clerk shall provide (1) certificates of insurance and (2) original written endorsements as evidence of the insurance coverage required by this contract. Certificates of such insurance and endorsements of the insurance required under Sections 10 and 11 shall be filed with Santiago GHAD and are considered an integral part of this contract, which shall not become effective until satisfactory evidence of insurance has been received by the Santiago GHAD.

13. Indemnification

To the fullest extent allowed by law, Clerk shall indemnify and hold harmless Santiago GHAD and its board members, officers, employees, agents and volunteers from and against any and all claims, demands, costs, attorney fees or expert fees to the extent arising out of or resulting from the negligence, recklessness, or willful misconduct of Clerk and its agents in the performance of services under this contract. Clerk shall not be obligated to indemnify Santiago GHAD against liability for damages for death or bodily injury to persons, injury to property, or any other loss, damage or expense arising from the sole negligence, willful misconduct or defects in design by Santiago GHAD or its agents, servants or independent contractors who are directly responsible to Santiago GHAD or arising from Santiago GHAD's active negligence. **Clerk's** aggregate liability hereunder shall be limited by Santiago **GHAD** to One Million Dollars (\$1,000,000) regardless of the legal theory under which such liability is imposed.

14. Equal Employment Opportunity

Clerk is an equal opportunity employer and agrees to comply with applicable regulations governing equal employment opportunity.

15. Notices

Any notice to be given under this contract shall be in writing and deemed given when personally delivered or deposited in the mail (certified or registered) addressed to the parties as follows:

GHAD Manager

Santiago Geologic Hazard Abatement District
Attention: GHAD Manager

GHAD Clerk

Santiago Geologic Hazard Abatement District
Attention: Clerk

16. Litigation

If either party brings an action to enforce this contract, the prevailing party is entitled to reasonable attorneys' fees and costs, including but not limited to expert witness fees and discovery costs.

17. Waivers

Waiver of a breach or default under this contract shall not constitute a continuing waiver or a waiver of a subsequent breach of the same or any other provision of this contract.

18. Modification

No waiver, modification or termination of this contract is valid unless made in writing.

19. Severability

If any term of this contract is held invalid by a court of competent jurisdiction, the remainder of this contract shall remain in effect.

20. Termination

- a. At any time and without cause, either party may terminate this contract by giving 30 calendar days written notice. In the event of termination without cause, Santiago GHAD shall pay Clerk for services rendered to date, and Clerk shall deliver any work product to Santiago GHAD upon termination, whether complete or incomplete.

- b. Santiago GHAD may terminate this contract for cause upon giving Clerk 10 days written notice describing Clerk's substantial failure to meet its obligations. If Clerk has not cured the defects in its performance within 10 days, Santiago GHAD may terminate the contract. Clerk shall give Santiago GHAD all work done toward completion of its services, whether complete or incomplete. Santiago GHAD shall pay Clerk for the services satisfactorily rendered to date.

21. Entire Agreement

This contract and its exhibits and attachments set forth the entire understanding between the parties. Changes or amendments shall be made in writing and signed by the parties.

Santiago GHAD

Clerk

By _____

By: _____

Name: _____

Name: _____

Title: _____

Title: _____

Date: _____

Date: _____

Attachments

1. Exhibit A — Scope of Services
2. Exhibit B — Payment Schedule
3. Exhibit C — Acknowledgement of Insurance Requirements (signed by Clerk)
4. Certificates of Insurance (4): workers' compensation, general, automobile, professional liability
5. Endorsements (2): general, automobile liability

**BOARD OF DIRECTORS OF THE
SANTIAGO GEOLOGIC HAZARD ABATEMENT DISTRICT**

RESOLUTION NO. 2020/04

**RESOLUTION: Santiago Geologic Hazard Abatement District (Santiago GHAD)
Authorizing the Board Chair to Execute an Addendum to Professional Services
Agreement for GHAD Dewatering Well Maintenance and Consultation Services, for a
Period from July 1, 2020, to June 30, 2021.**

WHEREAS, on March 16, 1999, the Anaheim City Council adopted Resolution No. 99R-50 approving and ordering the formation of the Santiago Geologic Hazard Abatement District ("Santiago GHAD"); and

WHEREAS, ENGEO Incorporated has reviewed the Plan of Control guidelines and previous dewatering well maintenance and consulting services completed for the Santiago GHAD; and

WHEREAS, the Contract Review Subcommittee and Board of Directors have reviewed the submitted statement of qualification; and

The Santiago Board of Directors HEREBY RESOLVES THAT:

1. The Santiago GHAD Board of Directors does hereby authorize the Santiago GHAD Chair to execute the attached Addendum to Professional Services Agreement with _____ to provide Dewatering Well Maintenance and Consultation Services for a period from July 1, 2020, to June 30, 2021, not to exceed \$_____; and
2. The recitals are incorporated herein by this reference; and
3. This Resolution shall become effective immediately upon its passage and adoption.

DATED: June 9, 2020

I, Karen Holthe, Clerk of the Santiago Geologic Hazard Abatement District, certify that the foregoing resolution was duly adopted by the Board of Directors of the District at a regular meeting held on the 9th day of June 2020 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Clerk of the Santiago GHAD Board

SANTIAGO GEOLOGIC HAZARD ABATEMENT DISTRICT
SERVICES CONTRACT

CONTRACT

1. SPECIAL TERMS. These special terms are incorporated below by reference.
- (See Secs. 2, 3) Parties: Agent – Santiago Geologic Hazard Abatement District (GHAD) Contractor –
Effective Date: July 1, 2020
- (See Sec. 3) Project Name, Number and Location: Santiago GHAD
The work consists of: Scope of Services described in Appendix A.
- (See Sec. 4) Duration: July 1, 2020, to June 30, 2021
- (See Sec. 4) GHAD's Agent: Eric Harrell, GHAD Manager
- (See Sec. 5) Contract #:
Contract Limit:
Payment Terms: Appendix A
- (See Sec. 6) Federal Taxpayer's I.D. or Social Security No.:

2. SIGNATURES & ACKNOWLEDGMENT – These signatures attest the parties' agreement hereto:

GHAD, By: _____
Eric Harrell, Santiago GHAD Manager

- (See Sec. 24) Contractor (_____), hereby also certifying awareness of and
compliance with Labor Code Sections 1861 and 3700 concerning Workers'
Compensation Law,

By: _____
(Designate official capacity in the business)

By: _____
(Designate official capacity in the business)

Note to Contractor: For corporations, the contract must be signed by two officers. The first signature must be that of the chairman of the board, president or vice president; the second signature must be that of the secretary, assistant secretary, chief financial officer or assistant treasurer (Civil Code, Section 1190 and Corporations Code, Section 313.). The acknowledgment below must be signed by a Notary Public.

CERTIFICATE OF ACKNOWLEDGMENT

State of California

County of _____

On _____ before me, _____
(insert name and title of the officer)

Personally appeared _____,

Who proves to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ **(Seal)**

3. WORK CONTRACT, CHANGES.
 - (a) By their signatures in Section 2, effective on the above date, these parties promise and agree as set forth in this Contract, incorporating by these references the material in Section 1, **SPECIAL TERMS.**
 - (b) GHAD reserves the right to modify Contractor's scope of work under this Contract. However, the terms, conditions, and scope of work set forth in this Contract may not be modified except by written authorization of the GHAD representative, nor shall Contractor be paid for any work unless authorized by the GHAD in writing prior to the execution of the work.
4. TIME; NOTICE TO PROCEED. Contractor shall start this work as directed by the General Manager or his Agent in the Notice to Proceed; and shall complete it as specified in Section 1, **SPECIAL TERMS.**
5. INDEPENDENT CONTRACTOR. Contractor is an independent contractor and is solely responsible for the means and methods of performing the work set forth in this Contract. Contractor shall have no power or authority by this Contract to bind the GHAD in any respect. Nothing in this Contract shall be construed to be inconsistent with this relationship or status. All employees, agents, contractors, or subcontractors hired or retained by the Contractor are employees, agents, contractors, or subcontractors of the Contractor and not of the GHAD. The GHAD shall not be obligated in any way to pay any wage claims or other claims made against contractor by any such employees, agents, contractors, or subcontractors or any other person resulting from performance of this Contract.
6. REVIEW OF PROJECT DOCUMENTS. Contractor warrants that it will review appropriate project documents, including any plans, specifications and reports, inspect the project site, and satisfy itself as to the conditions under which the work is to be performed, including any subsurface or latent conditions. Contractor understands that the conditions encountered by Contractor may differ from those anticipated by Contractor and agrees to bear the risk of such difference in conditions. Neither the time in which the work is to be performed, nor the cost of performing such work, shall be increased because of unforeseen or unanticipated site or project conditions.
7. WARRANTIES AND GUARANTIES. Contractor warrants that its work shall be free from defects and shall be suitable for the use intended. In the event that any deficiencies in Contractor's work are discovered within one year after completion of the project, Contractor shall, at its sole cost, repair, replace or repeat any defective work, including repair of any portion of the project or property damaged by repair, replacement or repeating of defective work. This warranty is in addition to any other remedy which the GHAD may have for defective work of Contractor.

The individual or individuals signing this Contract on behalf of Contractor warrant that they are authorized to bind Contractor to this Contract and guarantee Contractor's performance of the work set forth under this Contract.

8. PAYMENT. The GHAD shall pay Contractor for services performed at the rates shown in Appendix B attached hereto, which include all overhead and incidental expenses, for which no additional compensation shall be allowed. Notwithstanding the foregoing, those incidental expenses specifically itemized in Appendix B shall be reimbursable by the GHAD to Contractor, provided that Contractor submits copies of receipts and, if applicable, a detailed mileage log to the GHAD. In no event shall the total amount paid to Contractor exceed the payment limit(s) specified in the contract limit set forth in Section 1, **SPECIAL TERMS** without prior written approval of the GHAD. Contractor's billing statements shall be submitted at convenient intervals approved by the GHAD and shall list, for each item of services, the employee categories, hours and rates. Contractor's billing statement shall be submitted at the completion of work described in Appendix A.
9. PAYMENTS WITHHELD.
 - (a) The GHAD or its Agent may withhold any payment or, because of later discovered evidence, nullify any or all certificate for payment, to such extent and period of time only as may be necessary to protect the GHAD from loss because of:
 - (1) Defective work not remedied, or uncompleted work, or
 - (2) Claims filed or reasonable evidence indicating probable filing, or
 - (3) Failure to properly pay subcontractors for material or labor, or
 - (4) Reasonable doubt that the work can be completed for the balance then unpaid, or
 - (b) The GHAD shall use reasonable diligence to discover and report to the Contractor, as the work progresses, the materials and labor which are not satisfactory to it, so as to avoid unnecessary trouble or cost to the Contractor in making good any defective work or parts.
10. INSURANCE. Contractor shall maintain continuously during the life of this Contract at its sole cost and expense, and shall require its subcontractors to maintain, the following minimum insurance requirements with all insurance carriers rated A-VII or better by A M Best.
 - (a) Workers' Compensation Insurance and Employer's Liability Insurance with limits of not less than \$1,000,000.00 per accident. The insurer, shall waive all rights of subrogation against the GHAD and its officers, employees, agents and volunteers for loss arising from work performed under this Contract. Contractor is aware of and complies with Labor Code Section 3700 and the California Workers' Compensation Law.
 - (b) Comprehensive General Liability with limits of not less than \$1,000,000 Per Occurrence/\$2,000,000 Aggregate applicable to bodily injury, sickness, or death in any one occurrence and not less than \$1,000,000 for loss of, or damage to, property

- in any one occurrence and \$2,000,000 Aggregate. This coverage shall include the following: (1) Comprehensive form; (2) Premises operations; (3) Underground explosion and collapse hazard; (4) Products completed operations; (5) Contractual liability; (6) Independent contractors; (7) Broad form property damage; (8) Personal Injury. The policy form must be a Commercial General Liability policy written on CG0001 form Waiver of Subrogation required.
- (c) Automobile Liability covering all owned, non-owned, or hired vehicles used by Contractor with limits of not less than \$2,000,000 applicable to bodily injury, sickness, or death of any one person per occurrence and \$1,000,000 for loss of or damage to property in any one occurrence.
 - (d) The policies under b) and c) above shall: (1) name the GHAD, its officers, employees, agents, and volunteers as Additional Insureds; (2) be primary to any other insurance maintained by The GHAD; (3) contain a severability-of-interest or cross-liability provisions; (4) provide 30 days advance notice to The GHAD in the event of any non-renewal, cancellation, restriction, or modification of insurance. The GHAD reserves the right to request additional certificates of insurance on a project by project basis.
 - (e) Contractor shall provide the GHAD with satisfactory evidence of the above-stated coverages prior to commencement of the services set forth in Section 1, **SPECIAL TERMS**. Failure to maintain such coverages is a material breach of this Contract. No payment shall be due Contractor for any work performed during a period or periods in which the insurance coverages were not in effect.
11. **BONDS.** Contractor shall provide, if the contract price exceeds \$25,000, at the time of the execution of the Contract, and at no additional expense to the GHAD, a surety bond executed by an admitted surety insurer in an amount equal to at least one-hundred percent (100%) of the contract price as security for the faithful performance of said Contract. Contractor shall provide, at the time of the execution of the Contract, and at no additional expense to the GHAD, a surety bond executed by an admitted surety insurer in an amount equal to at least fifty percent (50%) of the contract price as security for the payment of all persons performing labor and furnishing materials in connection with said Contract. Sureties on each of said bonds shall be satisfactory to the GHAD.
 12. **FAILURE TO PERFORM.** If the Contractor at any time refuses or neglects, without fault of the GHAD or its agent(s), to supply sufficient materials or workmen to complete this Contract and work as provided herein, for a period of 10 days or more after written notice thereof by the GHAD, the GHAD may furnish necessary materials or workmen and deduct the reasonable expenses (including attorney's fees) thereof from the contract price.
 13. **TERMINATION.** This Contract may be terminated by the GHAD, without cause, on seven days written notice to Contractor. Contractor may terminate this Contract upon thirty (30) days' written notice to the GHAD. In the event of termination, Contractor shall be paid for all work performed prior to termination less the cost of remedying any defective work performed by Contractor. The indemnifications, insurance, liens and job site safety obligations survive termination of this Contract.
 14. **NON-ASSIGNMENT.** Contractor shall not delegate or assign the obligations of this Contract without prior written approval of the GHAD.
 15. **COMPLIANCE WITH LAWS/PERMITS/LICENSES.** The Contractor shall perform services in accordance with all applicable state and federal laws, regulations, ordinances, permits, licenses, and other rules of the state, territory, or political subdivisions where the services are performed and/or provided. The parties specifically stipulate that the relevant penalties and forfeitures provided in the Labor Code, especially in Sections 1773 through 1777 and 1810 through 1815, concerning prevailing wages and hours, shall apply to this Contract.
 16. **LIENS.** Contractor shall discharge at once or bond or otherwise secure against all liens and attachments which are filed in connection with the services, and Contractor shall indemnify, defend and save the GHAD, and the owners of the premises on which the services are performed, or to which the services relate, harmless from and against any and all loss, damage, liability and claims thereof resulting from such liens and attachments.
 17. **SURVIVAL.** This Contract binds the heirs, successors, assigns, and representatives of Contractor; but Contractor cannot assign it in whole or in part, nor any monies due or to become due under it, without the prior written consent of the GHAD and the Contractor's surety or sureties, unless they have waived notice of assignment.
 18. **NO WAIVER BY GHAD.** Inspection of the work and/or materials, or approval of work and/or materials inspected, or statement by any officer, agent or employee of the GHAD indicating the work or any part thereof complies with the requirements of payments therefore, or any combination of these acts, shall not relieve Contractor of his obligation to fulfill this Contract as prescribed; nor shall the GHAD be thereby estopped from bringing any action for damages or enforcement arising from the failure to comply with any of the terms and conditions hereof.

19. INDEMNITY. Contractor shall hold indemnify, defend and hold harmless the GHAD and its elective and appointive boards, commissions, officers, agents and employees from and against any and all claims, liens or encumbrances, damages, liability, suits, actions and expenses, including reasonable attorney's fees, relating to any and all losses or damages sustained by or alleged to have been sustained by employees of the parties hereto, and arising from Contractor's performance or failure to perform the services set forth in this Contract, or failure to comply with any regulatory guidelines and/or requirements. Contractor shall not be required to indemnify and hold harmless the GHAD and its elective and appointive boards, commissions, officers, agents and employees from claims, damages or liability caused by the sole negligence or willful misconduct of the GHAD.
20. JOB SITE SAFETY. Contractor shall be solely responsible for the safety of persons or property on, or adjacent to the job site. Contractor shall be responsible for its activities and the activities of its subcontractors' or agents' employees on the job site with respect to job site safety. Neither the professional activities nor the presence of the GHAD or its agents, employees, contractors, and subcontractors shall be understood to control the operations of others. In addition, Contractor shall comply with the provisions of Labor Code Section 6705, if applicable, by submitting to the GHAD a detailed plan showing the design of shoring, bracing, sloping, or other provisions to be made for worker protection from the hazard of caving ground during trench excavation.
21. RECORD RETENTION. Except for records delivered to the GHAD, Contractor shall retain, for a period of at least five (5) years after Contractor's receipt of the final payment under this Contract, all records prepared in the performance of this Contract or otherwise pertaining to the work, including without limitation bidding, financial and payroll records. Upon request by the GHAD, Contractor shall make such records available to the GHAD, or to authorized representatives of the state and federal governments, at no additional charge and without restriction or limitation on their use.
22. RENTAL AND WAGE RATES. The statement of prevailing wages appearing in the Equipment Rental Rates and General Prevailing Wage Rates, on file at the GHAD, is hereby specifically referred to and by this reference is made a part of this Contract.
23. CLAIMS. As applicable by statute, if a dispute arises out of or related to this Contract, or the breach thereof, and if the dispute cannot be settled through direct discussions, the parties shall, before initiation of any litigation or arbitration, endeavor to settle the dispute by mediation with the assistance of a neutral mediator. The mediator shall be selected through the mutual agreement of the parties, but if agreement as to the mediator is not achieved within 14 days after either party requests mediation in writing, then each party shall select a neutral representative and the neutral representatives shall meet and select a mediator. Should litigation be initiated after the mediation, the prevailing party shall be entitled to reasonable costs of defense, including attorney's fees, expert witness fees, and court costs.
24. WORKERS' COMPENSATION INSURANCE CERTIFICATION. Contractor shall sign, and comply with the terms of, the certification required under Labor Section 1861, attached to this Contract as Appendix C.
25. INTEGRATION AND SEVERABILITY. This Contract and all Exhibits and Appendices attached hereto, represent the entire and integrated agreement between Contractor and the GHAD and supersede all prior negotiations, representations, or agreements either written or oral between the parties. Should any portion of this contract be held invalid, the remaining portions shall continue as if the invalid portions had not been part of this Contract.
26. INSPECTION AND REVIEW. GHAD reserves the right to inspect supplies and equipment delivered, and services performed, to determine conformance with the specifications and requirements set forth in the scope of work, Section 1, **SPECIAL TERMS**.
27. AMENDMENT. The parties may amend this Contract only by a writing signed by all the parties.
28. ATTORNEYS' FEES. If a party to this Contract brings any action, including an action for declaratory relief, to enforce or interpret any provision of this Contract, the prevailing party shall be entitled to reasonable attorneys' fees in addition to any other relief to which that party may be entitled. The court may set such fees in the same action or a separate action brought for that purpose.
29. VENUE. In the event that either party brings any action against the other under this Contract, the parties agree that venue shall be proper only in the County of Alameda or in the United States District Court for the Northern District of California.
30. DISCRIMINATION. Contractor shall not engage in unlawful employment discrimination. Such unlawful employment discrimination includes, but is not limited to, employment discrimination based upon a person's race, religious creed, color, national origin, ancestry, physical handicap, medical condition, marital status, gender, citizenship or sexual orientation.

Attachments:

1. Exhibit A — Scope of Services
2. Exhibit B — Payment Schedule
3. Exhibit C — Acknowledgement of Insurance Requirements (signed by Well Maintenance and Monitoring Contractor)
4. Certificates of Insurance (4): workers' compensation, general, automobile, professional liability
5. Endorsements (2): general, automobile liability

**BOARD OF DIRECTORS OF THE
SANTIAGO GEOLOGIC HAZARD ABATEMENT DISTRICT**

RESOLUTION NO. 2020/05

**RESOLUTION: Santiago Geologic Hazard Abatement District (Santiago GHAD)
Authorizing the Board Chair to Execute an Agreement with GHAD Treasurer Inc., for a
Period from July 1, 2020 To June 30, 2021, in an Amount Not to Exceed \$5,000.**

WHEREAS, on March 16, 1999, the Anaheim City Council adopted Resolution No. 99R-50 approving and ordering the formation of the Santiago Geologic Hazard Abatement District ("Santiago GHAD"); and

WHEREAS, pursuant to Public Resources Code section 26585, the Board of Directors must appoint a Treasurer; and

WHEREAS, the GHAD Board of Directors appointed CAPTRUST, to act as the Santiago GHAD Treasurer with the approval of Resolution No 2018/05; and

WHEREAS, in January 2019, CAPTRUST reorganized for the purpose of acting as treasurer for various GHADs in order to separate treasurer functions from GHAD funds investment management functions; and

WHEREAS, on June 27, 2019 GHAD Treasurer, Inc. was appointed as the GHAD Treasurer with the approval of Resolution 2019/15; and

The Santiago Board of Directors HEREBY RESOLVES THAT:

1. The Santiago GHAD Board of Directors does hereby authorize the Santiago GHAD Chair to execute an Agreement to provide GHAD Treasurer services with GHAD Treasurer, Inc. for a period from July 1, 2020 to June 30, 2021 not to exceed \$5,000; and
2. This Resolution shall become effective immediately upon its passage and adoption.

DATED: June 9, 2020

I, Karen Holthe, Clerk of the Santiago Geologic Hazard Abatement District, certify that the foregoing resolution was duly adopted by the Board of Directors of the District at a regular meeting held on the 9th day of June 2020 by the following vote:

AYES: NOES:

ABSENT:

ABSTAIN:

Clerk of the Santiago GHAD Board

CONTRACT FOR PROFESSIONAL SERVICES

THIS CONTRACT FOR GHAD TREASURER SERVICES (this "Contract") is made and entered into this 9th day of June 2020, by and between the Santiago Geologic Hazard Abatement District, a political subdivision of the State of California, ("GHAD"), and GHAD Treasurer, Inc. ("GHAD Treasurer") (individually, a "Party" and collectively the "Parties"), for professional services more particularly described herein.

The GHAD and GHAD Treasurer, for mutual consideration as defined herein, agree to the following terms, services and conditions.

1. **Contract Documents.** This Contract is comprised of the following documents: (i) this Contract for GHAD Treasurer Services, (ii) Addendum A to Contract for GHAD Treasurer Services attached hereto and incorporated herein by reference ("**Addendum A**").
2. **Term.** This Contract between the parties is effective as of the date of execution and shall remain in effect until terminated in accordance with the provisions set forth in Section 10 of this Contract.
3. **Services.** GHAD Treasurer will, in accordance with the terms of this Contract, perform professional services, which are described in Addendum A (the "**Services**").
4. **Fees.** The GHAD agrees to pay the GHAD Treasurer on a monthly basis for the Services pursuant to this Contract in the amount described in the Addendum A. The GHAD Treasurer will submit invoices to the GHAD Manager on an as-needed basis but no more frequently than once a calendar quarter.
5. **Expenses.** GHAD Treasurer shall be reimbursed by the GHAD for the actual cost of those reimbursable expenses incurred by GHAD Treasurer listed in Addendum A, if any.
6. **Laws, Rules and Regulations.** GHAD Treasurer shall perform the Services in accordance with all applicable local, state and federal laws and regulations.
7. **Indemnity.** GHAD Treasurer shall indemnify, defend, save and hold harmless GHAD, its directors, officers and employees and other related parties for any acts or omissions arising out of the performance of this Contract from and against any and all claims, damages, losses, liabilities and expenses.
8. **Insurance.** GHAD Treasurer shall purchase and maintain with an insurer or insurers acceptable to GHAD, a commercial general liability policy with a minimum of \$1 Million in coverage.
9. **Confidentiality.** Each Party shall maintain confidentiality of all such confidential information exchanged in connection with the performance of this Contract, and without obtaining the written consent of the other Party, it shall not disclose any relevant confidential information to any third parties, except for the information that: (a) is or will be in the public domain (other than through the receiving Party's unauthorized disclosure); (b) is under the obligation to be disclosed pursuant to applicable laws or regulations. This Section shall survive the termination of this Agreement for any reason.
10. **Contract Modification or Termination.** GHAD and GHAD Treasurer agree that the terms and conditions of this Contract shall constitute the entire agreement between the parties hereto as to the subject matter of this Contract, and shall supersede all prior and contemporaneous negotiations and agreements on that subject matter. GHAD and GHAD Treasurer may modify the terms of this Contract only by executing a written amendment which shall reference this Agreement and shall be executed by

the parties hereto. This Contract shall be terminated in writing by either Party upon 30 days' notice to the other.

11. **Contract Administration.** The Parties acknowledge that the GHAD Manager will administer this Agreement on behalf of the GHAD Board of Directors.
12. **Counterparts.** This Contract may be executed in counterparts, each of which shall be deemed an original and all of which together shall constitute one and the same instrument. For convenience, the parties may exchange scanned copies of the signature pages to this Contract, which copies shall be binding as originals.

IN WITNESS WHEREOF, the parties have caused this Agreement to be duly executed the day and year first above written.

Santiago Geologic Hazard Abatement
District:

GHAD Treasurer, Inc.:

By:
Name: Marc Schwering
Chair of the Santiago Geologic Hazard
Abatement District

By:
Name: Dave Fernandez

Dated:

Dated:

Address:
2010 Crow Canyon Place, Suite 250
San Ramon, CA 94583

Address:
2010 Crow Canyon Place, Suite
210
San Ramon, CA 94583

Email: eharrell@engeo.com

Email:
dave.fernandez@captrust.com

Addendum A

The GHAD Treasurer shall provide the following professional services: The GHAD Treasurer is responsible for the general oversight of the GHAD's fiscal resources working in close collaboration and cooperation with the GHAD Manager. The role of the GHAD Treasurer includes providing accurate cash projections of the GHAD's revenues, the expeditious accounting of real property assessments collected by Contra Costa County, the control of disbursements and the cost-effective management of custodial relations.

The GHAD Treasurer has the authority to select a firm(s) or individual(s) to manage the GHAD investment accounts consistent with the provisions of the GHAD-adopted Statement of Investment Policy. Fees and costs associated with the GHAD investment management services are payable by the GHAD.

The GHAD Treasurer coordinates closely with the GHAD Manager on budget, cash flow and disbursements. The GHAD Treasurer has further authority to engage the services of one or more third party custodians ("Custodian") to provide safekeeping and custody of assets, and issuance of requested and approved disbursements of GHAD funds.

The GHAD Treasurer has the authority to disburse funds from GHAD accounts held by the Custodian with the written or electronic consent of the GHAD Manager. The GHAD Manager is responsible for authorizing disbursements (i.e., invoices) consistent with the GHAD budget approved by the GHAD Board of Directors. The GHAD Treasurer is responsible for reviewing, approving and authorizing disbursements submitted by the GHAD Manager. Such disbursements are, in turn, issued by a Custodian upon authorization by the GHAD Treasurer.

The GHAD Treasurer shall annually review the Statement of Investment Policy in conjunction with the GHAD Manager. The GHAD Treasurer and GHAD Manager have the authority to determine whether modifications to the Policy are necessary and, if so, to report such recommended modifications to the GHAD Board of Directors.

The GHAD Treasurer is responsible for providing the following reports:

A. Monthly

The GHAD Treasurer will coordinate with the Custodian(s) to provide a monthly institutional brokerage statement, and bank statements, with an investment and transaction summary to the GHAD Manager.

B. Quarterly

The GHAD Treasurer shall submit quarterly financial reports to the GHAD Manager and the GHAD Board.

The quarterly report shall highlight key aspects of information contained in the investment reports; a summary of investment activity for the GHAD, total account balance, balance by position, quarterly performance summary of the investment portfolio and review of cash flow required to meet expenditures for the next six months.

C. Other

The GHAD Treasurer shall present to the GHAD Manager an annual report on the investment program and investment activity no later than 180 days following the end of the fiscal

year. The annual report may include a performance summary, and following consultation with the investment manager, suggest policies and improvements that might enhance the investment program, and include an investment plan for the ensuing fiscal year. The GHAD Treasurer will provide additional data deemed necessary by the GHAD Manager to facilitate any additional accounting or reporting requirement.

The GHAD Treasurer shall maintain a list of financial institutions authorized to provide custodial services. Assets are held directly with the Custodian which provides independent verification of assets through monthly institutional account statements. The GHAD Treasurer is responsible for the coordination, review, and monitoring of GHAD cash disbursements. Through a dual control verification process, the GHAD Treasurer must verify disbursement requests from the GHAD Manager. GHAD Manager shall only submit check requests for vendors previously approved by the GHAD Manager and the GHAD Treasurer shall only cause to be processed checks from previously approved vendors. The GHAD Treasurer coordinates and verifies disbursements from the Custodian to the approved vendors.

The GHAD Treasurer shall attend up to 4 (four) GHAD Board meetings per year. Additional meeting attendance, if necessary, can be billed on a time and materials basis.

Fees: GHAD Treasurer shall be paid an annual fee of 0.25% of assets billed on a quarterly basis.

Reimbursable Expenses: GHAD Treasurer shall be reimbursed for expenses including mileage at the then standard mileage rate published by the Internal Revenue Service.

**BOARD OF DIRECTORS OF
THE
SANTIAGO GEOLOGIC HAZARD ABATEMENT
DISTRICT**

RESOLUTION NO. 2020/06

RESOLUTION: Adopt Santiago Geologic Hazard Abatement District Annual Budget for the Fiscal Year 2020/2021.

WHEREAS, on March 16, 1999, the Anaheim City Council adopted Resolution No. 99R-50 approving and ordering the formation of the Santiago Geologic Hazard Abatement District ("Santiago GHAD"); and

WHEREAS, the Santiago GHAD Board of Directors desire to adopt a budget for fiscal year 2020/2021 prepared by the GHAD Manager, attached hereto as Exhibit A.

**The Santiago GHAD Board of Directors HEREBY RESOLVES
THAT:**

1. The GHAD Board approves the GHAD budget for the 2020/2021 fiscal year attached as Exhibit A and incorporated herein by this reference.
2. This Resolution shall become effective immediately upon its passage and adoption.

DATED: June 9, 2020

I, Karen Holthe, Clerk of the Santiago Geologic Hazard Abatement District, certify that the foregoing resolution was duly adopted by the Board of Directors of the District at a regular meeting held on the 9th day of June 2020 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Clerk of the Santiago GHAD Board

**SANTIAGO GEOLOGIC HAZARD ABATEMENT DISTRICT
PROGRAM BUDGET FOR FISCAL YEAR 2020/21**

June 3, 2020

Santiago GHAD Board of Directors
Santiago Geologic Hazard Abatement District
825 N. Park Center Drive, Suite 101
Santa Ana, CA 92705

Subject: Santiago Geologic Hazard Abatement District
Anaheim, California

PROGRAM BUDGET FOR FISCAL YEAR 2020/21

Dear Board Members:

Attached is the program budget for the Santiago Geologic Hazard Abatement District (GHAD) for the Fiscal Year (FY) 2020/21. The program budget as proposed for FY 2020/21 is \$246,146. The budget expenses break down into the following approximate percentages of the total proposed expenditures.

- Major Repair 0 percent
- Preventive Maintenance and Operations..... 79 percent
- Administration 10 percent
- Assessment Support Services..... 1 percent
- Additional - Outside Professional Services 10 percent

The budget anticipates FY 2020/21 revenue of \$10,750. A summary of the expenses is shown on Table 1 followed by a brief description of each budget item on the following pages.

If you have any questions regarding the contents of this letter, please contact us.

Sincerely,

Santiago Geologic Hazard Abatement District
ENGEO Incorporated, GHAD Manager
ENGEO Project No. 14174.002.019

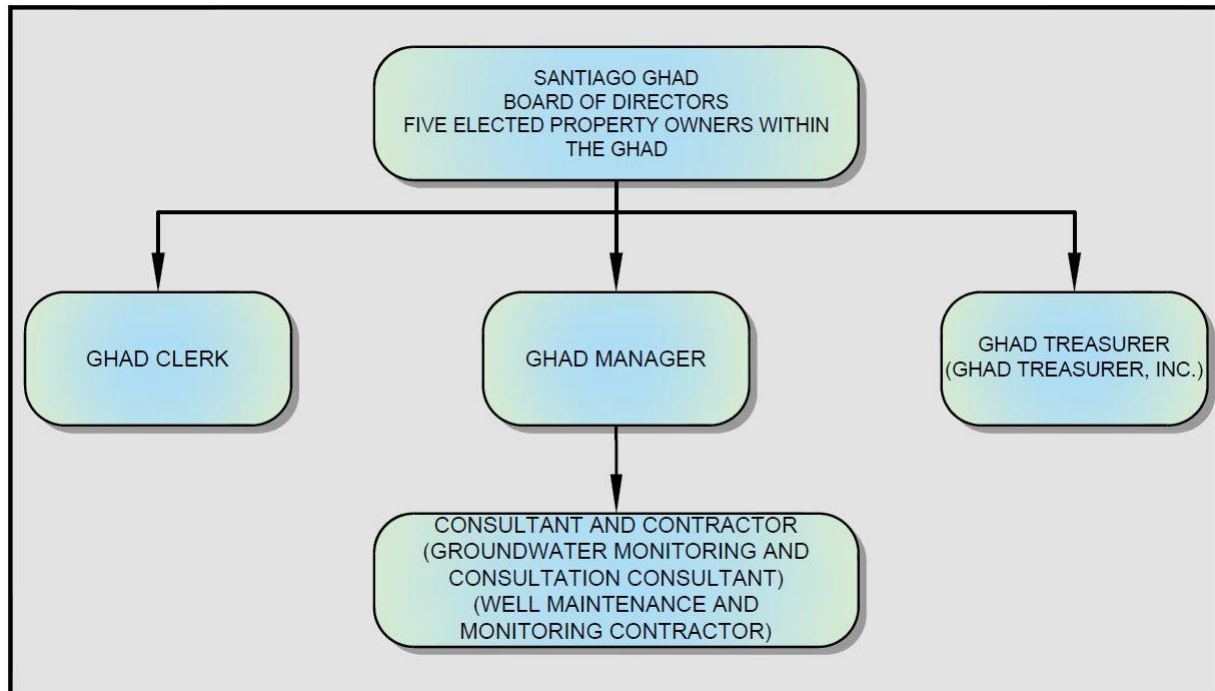
Eric Harrell

Macy Tong

eh/mt/

**Santiago Geologic Hazard Abatement District
Program Budget
Fiscal Year 2020/21**

The following proposed program budget summarizes the anticipated receivables and expenditures for FY2020/21 for the Santiago Geologic Hazard Abatement District. The structure of the Santiago GHAD is shown below.



The GHAD has maintenance and monitoring responsibilities for parcels listed in Exhibit A.

The fiscal year for the Santiago GHAD begins on July 1. The budget is divided into three categories including Major Repair; Preventive Maintenance and Operations; and Administration and Accounting. As needed, the GHAD Manager may reallocate funds within the board-approved budget without additional Board approval. The budget amounts listed are based on the prior expense history or contracts proposed or approved by the GHAD Board of Directors.

MAJOR REPAIR

Included within the major repair category are those repair or improvement projects that are intermittent and, by their nature, do not fit within a scheduled well and drain maintenance program such as major dewatering well rehabilitation or replacement. While it appears that there are significant well maintenance and repair items that have been deferred, to help maintain the GHAD account balance and allow response to critical failures that may occur, these items are not funded in the FY 2020/21 budget.

PREVENTIVE MAINTENANCE AND OPERATIONS

Preventive maintenance and operations include professional services in addition to ongoing maintenance and repair of the GHAD-maintained dewatering well system.

ADMINISTRATION AND ACCOUNTING

Administrative expenses include the General Manager duties related to the operation and administration of the GHAD. These include clerical and accounting functions.

TABLE 1: Summary of Use of Funds

USE OF FUNDS				
	FY 2019/20 ESTIMATE*	FY 2019/20 BUDGET	FY 2020/21 PROPOSED	PERCENT CHANGE FROM FY 2019/20
Major Repairs				
Subtotal	\$0	\$0	\$0	0%
Preventive Maintenance and Operations - Professional Services				
Scheduled Monitoring and Analysis Activities	\$58,753	\$62,600	\$43,300	
Subtotal	\$58,753	\$62,600	\$43,300	-30.8%
Preventive Maintenance and Operations - Maintenance and Operations				
Well Vaults, Well Casings, and Electrical	\$105,520	\$116,000	\$116,000	
Well and Drain Maintenance	\$17,275	\$30,000	\$20,000	
Electrical Charges	\$14,060	\$18,000	\$16,000	
Subtotal	\$136,855	\$164,000	\$152,000	-13.8%
Administration and Accounting – GHAD Manager				
Administration and Accounting	\$19,500 ¹	\$18,000	\$24,000	
Assessment Support Services	\$25,506	\$8,000	\$3,000	
Subtotal	\$45,006	\$26,000	\$27,000	3.8%
Administration and Accounting – Outside Professional Services				
Legal Counsel	\$3,615	\$5,000	\$5,000	
Clerk	\$6,200	\$6,000	\$6,000	
Treasurer	\$3,500	\$3,500	\$5,000	
California Association of GHADs	\$176	\$176	\$176	
Insurance – General Liability	\$700	\$650	\$770	
Insurance – Directors and Officers	\$1,259	\$1,300	\$1,300	
Public Outreach	\$0	\$0	\$5,000	
Facilities Rental	\$180	\$600	\$600	
Subtotal	\$15,629	\$17,226	\$23,846	38.4%
Total	\$256,243	\$269,826	\$246,146	-8.8%

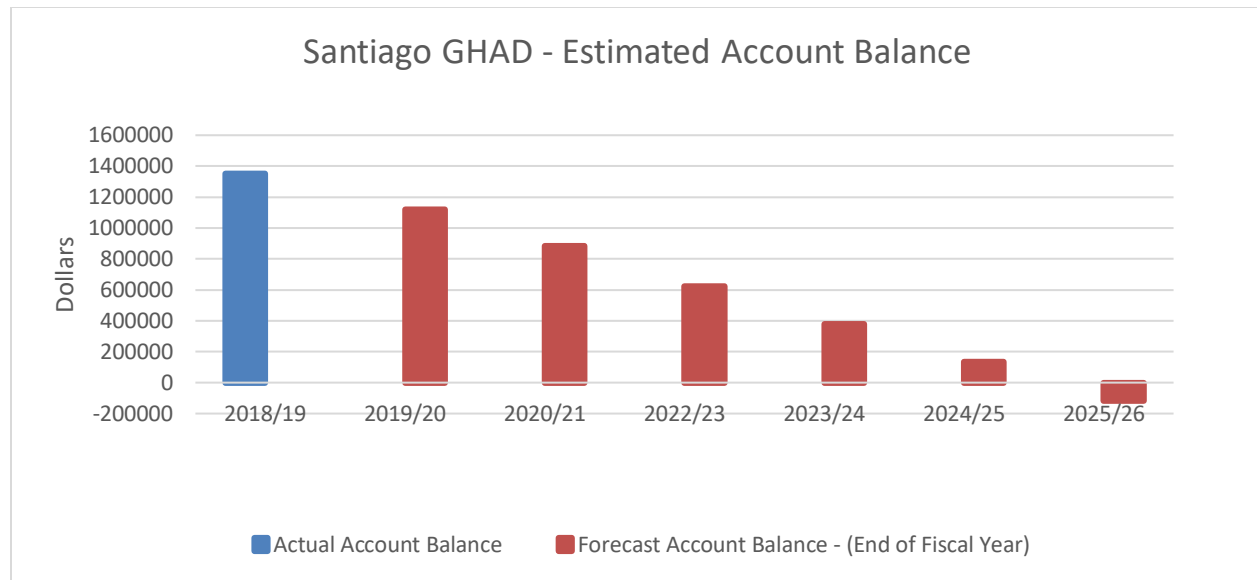
¹Includes \$1,500 of expenses reimbursed outside of GHAD funds

TABLE 2: Summary of Proposed Fiscal Year 2020/21 Budget

BUDGET ITEM	BUDGET AMOUNT	PERCENT OF TOTAL BUDGET (FY 2020/21)
MAJOR REPAIRS		
Major Repairs	TOTAL	\$0 0%
PREVENTIVE MAINTENANCE AND OPERATIONS		
Professional Services		
Scheduled Monitoring and Analysis Activities	\$43,300	

BUDGET ITEM	BUDGET AMOUNT	PERCENT OF TOTAL BUDGET (FY 2020/21)
Subtotal	\$43,300	17%
Maintenance and Operations		
Well Vaults, Well Casings, and Electrical	\$116,000	
Well and Drain Maintenance	\$20,000	
Electrical Charges	\$16,000	
Subtotal	\$152,000	62%
Preventive Maintenance and Operations	TOTAL	\$195,300
ADMINISTRATION AND ACCOUNTING – GHAD MANAGER		
Administration	\$24,000	
Assessment Support Services	\$3,000	
Subtotal	\$27,000	11%
Outside Professional Services - Nontechnical		
Legal Counsel	\$5,000	
Clerk	\$6,000	
Treasurer	\$5,000	
California Association of GHADs	\$176	
Insurance – General Liability	\$770	
Insurance – Directors and Officers	\$1,300	
Public Outreach	\$5,000	
Facilities Rental	\$600	
Subtotal	\$23,846	10%
Administration and Accounting	TOTAL	\$50,846
PROPOSED EXPENDITURES 2020/21	TOTAL	\$246,146
BALANCE ON JULY 1, 2019	\$1,350,388	
Estimated 2019/20 Revenue		
Estimated Revenue	\$1,500	
Estimated Investment Income	\$24,700	
Estimated 2020/21 Expenses		
Estimated Expenses	\$256,243	
ESTIMATED BALANCE ON JUNE 30, 2020	\$1,120,345	
Estimated 2020/21 Revenue		
Estimated Investment Income	\$10,750	
Estimated 2020/21 Expenses		
Estimated Expenses	\$246,146	
ESTIMATED BALANCE ON JUNE 30, 2021	\$884,949	

A five-year forecast of the account balance is shown on the graph below. The account balance forecast assumes expenses will increase by 2 percent annually and the rate of return on the remaining account balance will be 1 percent annually.



PREVENTIVE MAINTENANCE AND OPERATIONS

Professional Services

Scheduled Monitoring and Analysis Activities

As provided in the Plan of Control, primary monitoring and analysis services are related to the dewatering wells, horizontal drains, and inclinometers, as well as review and consultation services.

Estimated budget \$43,300

Maintenance and Operations

Wells, Vaults, Casings, and Electrical System

This budget item allows for maintenance of the equipment within the well vaults, well casing, and electrical system up to the pump control box. Includes monthly monitoring reports for each of the wells.

Estimated budget \$116,000

Wells and Drain Maintenance

This budget item allows for monitoring, maintenance, and repair of observation wells and drains.

Estimated budget \$20,000

Electrical Charges

This budget item allows for payment of electrical charges incurred for ongoing operation of the production wells.

Estimated budget \$16,000

ADMINISTRATION AND ACCOUNTING

GHAD Manager

Administration

Administrative expenses include the GHAD Manager duties related to the operation and administration of the GHAD.

Estimated budget \$24,000

Assessment Support Services

Support services up to and including the Proposition 218 election. These services will include preparation of budgets, engineer's report(s), meetings, property-owner ballots, and other documents as required.

Estimated budget \$3,000

Outside Fees and Professional Services – Nontechnical

Legal Counsel

This budget item allows the GHAD to engage legal counsel for the District on an as-needed basis. The duties of the legal counsel may include but not be limited to, preparation or review of contracts, board resolutions, and other board matters as directed.

Estimated budget \$5,000

Clerk

This budget item accounts for fees to provide clerical staffing and support services for the GHAD Board of Directors and to keep and provide interested parties with official records and documents relative to Board actions.

Estimated cost \$6,000

Treasurer

This budget item accounts for fees related to investment of the GHAD funds and processing of accounts payable.

Estimated cost \$5,000

California Association of GHADs Membership

The GHAD maintains membership in the California Association of GHADs.

Estimated cost \$176

Insurance – General Liability

The GHAD maintains general liability insurance for the non-GHAD owned open-space areas within the District.

Estimated cost \$770

Insurance – Directors and Officers

The GHAD maintains directors and offices insurance for the Board of Directors.

Estimated cost \$1,300

Public Outreach

This budget item allows the GHAD to engage external services to inform property owners within the District of the GHADs extent, function, and services.

Estimated cost \$5,000

Facilities Rental

The GHAD rents facilities for regularly scheduled Board of Director's meetings and other events such as GHAD workshops.

Estimated cost \$600

DRAFT

EXHIBIT A

Santiago GHAD - Assessor's Parcel Numbers

EXHIBIT A
Santiago GHAD - Assessor's Parcel Number

LOT NUMBER	ADDRESS	ASSESSOR'S PARCEL NUMBER
1	6841 E KENTUCKY AVE	365-101-01
2	6831 E KENTUCKY AVE	365-101-02
3	6821 E KENTUCKY AVE	365-101-03
4	6811 E KENTUCKY AVE	365-101-04
5	6801 E KENTUCKY AVE	365-101-05
6	6796 E KENTUCKY AVE	365-102-01
7	6825 E SWARTHMORE DR	365-102-20
8	6835 E SWARTHMORE DR	365-102-21
9	993 S VASSAR CIR	365-103-01
10	983 S VASSAR CIR	365-103-02
11	973 S VASSAR CIR	365-103-03
12	963 S VASSAR CIR	365-103-04
13	953 S VASSAR CIR	365-103-05
14	6851 E KENTUCKY AVE	365-111-01
15	6871 E KENTUCKY AVE	365-111-02
16	6881 E KENTUCKY AVE	365-111-03
17	6891 E KENTUCKY AVE	365-111-04
18	6931 E MICHIGAN CIR	365-111-05
19	6911 E MICHIGAN CIR	365-111-06
20	6901 E MICHIGAN CIR	365-111-07
21	6890 E KENTUCKY AVE	365-111-08
22	6880 E KENTUCKY AVE	365-111-09
23	6850 E KENTUCKY AVE	365-111-10
24	6820 E KENTUCKY AVE	365-111-11
25	6810 E KENTUCKY AVE	365-111-12
26	6800 E KENTUCKY AVE	365-111-13
27	6891 E RUTGERS DR	365-112-01
28	6881 E RUTGERS DR	365-112-02
29	6871 E RUTGERS DR	365-112-03
30	934 S LEHIGH DR	365-112-04
31	914 S LEHIGH DR	365-112-05
32	6885 E SWARTHMORE DR	365-112-06
33	6875 E SWARTHMORE DR	365-112-07
34	6865 E SWARTHMORE DR	365-112-08
35	6855 E SWARTHMORE DR	365-112-09
36	6845 E SWARTHMORE DR	365-112-10
37	997 S LOYOLA DR	365-113-01
38	987 S LOYOLA DR	365-113-02
39	977 S LOYOLA DR	365-113-03
40	974 S LEHIGH DR	365-113-04
41	984 S LEHIGH DR	365-113-05
42	994 S LEHIGH DR	365-113-06
43	995 S LEHIGH DR	365-113-07
44	985 S LEHIGH DR	365-113-08
45	975 S LEHIGH DR	365-113-09
46	965 S LEHIGH DR	365-113-10
47	955 S LEHIGH DR	365-113-11
48	945 S LEHIGH DR	365-113-12
49	952 S VASSAR CIR	365-113-13
50	962 S VASSAR CIR	365-113-14
51	972 S VASSAR CIR	365-113-15
52	982 S VASSAR CIR	365-113-16
53	992 S VASSAR CIR	365-113-17
54	998 S VASSAR CIR	365-113-18
55	6941 E MICHIGAN CIR	365-121-01
56	6961 E MICHIGAN CIR	365-121-02
57	6971 E MICHIGAN CIR	365-121-03

EXHIBIT A
Santiago GHAD - Assessor's Parcel Number

LOT NUMBER	ADDRESS	ASSESSOR'S PARCEL NUMBER
58	6981 E MICHIGAN CIR	365-121-04
59	6990 E MICHIGAN CIR	365-121-05
60	6970 E MICHIGAN CIR	365-121-06
61	6960 E MICHIGAN CIR	365-121-07
62	6930 E MICHIGAN CIR	365-121-08
63	6910 E MICHIGAN CIR	365-121-09
64	6901 E RUTGERS DR	365-121-10
65	6909 E RUTGERS DR	365-121-11
66	6915 E RUTGERS DR	365-121-12
67	6923 E RUTGERS DR	365-121-13
68	990 S LOYOLA DR	365-122-01
69	980 S LOYOLA DR	365-122-02
70	970 S LOYOLA DR	365-122-03
71	971 S SCRIPPS CIR	365-122-04
72	981 S SCRIPPS CIR	365-122-05
73	991 S SCRIPPS CIR	365-122-06
74	6991 E VIA EL ESTRIBO	365-201-01
75	6985 E VIA EL ESTRIBO	365-201-02
76	6981 E VIA EL ESTRIBO	365-201-03
77	6975 E VIA EL ESTRIBO	365-201-04
78	6971 E VIA EL ESTRIBO	365-201-06
79	6965 E VIA EL ESTRIBO	365-201-07
80	6975 E AVENIDA DE SANTIAGO	365-202-01
81	6950 E VIA EL ESTRIBO	365-202-02
82	6960 E VIA EL ESTRIBO	365-202-03
83	6970 E VIA EL ESTRIBO	365-202-04
84	6990 E VIA EL ESTRIBO	365-202-05
85	6991 E WILLIAMS CIR	365-211-01
86	6971 E WILLIAMS CIR	365-211-02
87	6951 E WILLIAMS CIR	365-211-03
88	6931 E WILLIAMS CIR	365-211-04
89	6921 E WILLIAMS CIR	365-211-05
90	6911 E WILLIAMS CIR	365-211-06
91	6901 E WILLIAMS CIR	365-211-07
92	WILLIAMS CIR AND SERRANO AVE	365-211-08
93	6961 E VIA EL ESTRIBO	365-211-09
94	6955 E VIA EL ESTRIBO	365-211-10
95	6951 E VIA EL ESTRIBO	365-211-11
96	6949 E AVENIDA DE SANTIAGO	365-211-12
97	6943 E AVENIDA DE SANTIAGO	365-211-13
98	6937 E AVENIDA DE SANTIAGO	365-211-14
99	6931 E AVENIDA DE SANTIAGO	365-211-15
100	6807 E GEORGETOWN CIR	365-221-01
101	6815 E GEORGETOWN CIR	365-221-02
102	6823 E GEORGETOWN CIR	365-221-03
103	6831 E GEORGETOWN CIR	365-221-04
104	6839 E GEORGETOWN CIR	365-221-05
105	6849 E GEORGETOWN CIR	365-221-06
106	6857 E GEORGETOWN CIR	365-221-07
107	6865 E GEORGETOWN CIR	365-221-08
108	6873 E GEORGETOWN CIR	365-221-09
109	6881 E GEORGETOWN CIR	365-221-10
110	6889 E GEORGETOWN CIR	365-221-11
111	6895 E GEORGETOWN CIR	365-221-12
112	6890 E GEORGETOWN CIR	365-221-13
113	6872 E GEORGETOWN CIR	365-221-14
114	6864 E GEORGETOWN CIR	365-221-15

EXHIBIT A
Santiago GHAD - Assessor's Parcel Number

LOT NUMBER	ADDRESS	ASSESSOR'S PARCEL NUMBER
115	6856 E GEORGETOWN CIR	365-221-16
116	6848 E GEORGETOWN CIR	365-221-17
117	6840 E GEORGETOWN CIR	365-221-18
118	6832 E GEORGETOWN CIR	365-221-19
119	6824 E GEORGETOWN CIR	365-221-20
120	6816 E GEORGETOWN CIR	365-221-21
121	6808 E GEORGETOWN CIR	365-221-22
122	6800 E GEORGETOWN CIR	365-221-23
123	GEORGETOWN CIR	365-221-24
124	6899 E AVENIDA DE SANTIAGO	365-221-25
125	6901 E AVENIDA DE SANTIAGO	365-221-26
126	6907 E AVENIDA DE SANTIAGO	365-221-27
127	6913 E AVENIDA DE SANTIAGO	365-221-28
128	6919 E AVENIDA DE SANTIAGO	365-221-29
129	6925 E AVENIDA DE SANTIAGO	365-221-30
130	6891 E AVENIDA DE SANTIAGO	365-231-01
131	6881 E AVENIDA DE SANTIAGO	365-231-02
132	6871 E AVENIDA DE SANTIAGO	365-231-03
133	6861 E AVENIDA DE SANTIAGO	365-231-04
134	6851 E AVENIDA DE SANTIAGO	365-231-05
135	6841 E AVENIDA DE SANTIAGO	365-231-06
136	6831 E AVENIDA DE SANTIAGO	365-231-07
137	6821 E AVENIDA DE SANTIAGO	365-231-08
138	6811 E AVENIDA DE SANTIAGO	365-231-09
139	6930 E AVE DE SANTIAGO	365-401-03
139	6930 E AVENIDA DE SANTIAGO	365-401-04
140	6940 E AVENIDA DE SANTIAGO	365-401-05
140	6940 E AVENIDA DE SANTIAGO	365-401-06
141	6950 E AVE DE SANTIAGO	365-401-07
141	6950 E AVE DE SANTIAGO	365-401-08
142	6960 E AVENIDA DE SANTIAGO	365-401-09
142	6960 E AVE DE SANTIAGO	365-401-10
143	6970 E AVE DE SANTIAGO	365-401-11
144	6980 E AVENIDA DE SANTIAGO	365-401-12
145	6990 E AVE DE SANTIAGO	365-401-13
145	6990 E AVE DE SANTIAGO	365-401-14
146	6920 E AVENIDA DE SANTIAGO	365-401-16
147	1125 S TAMARISK DR	365-431-01
148	1130 S TAMARISK DR	365-441-01
149	1150 S TAMARISK DR	365-441-02
150	1160 S TAMARISK DR	365-441-03
151	1180 S TAMARISK DR	365-441-04
152	1190 S TAMARISK DR	365-441-05
153	1145 S TAMARISK DR	365-441-06
154	6912 E AVENIDA DE SANTIAGO	365-451-01
154	6912 E AVENIDA DE SANTIAGO	365-451-02
155	6906 E AVE DE SANTIAGO	365-451-03
155	6906 E AVE DE SANTIAGO	365-451-04
156	1110 S TAMARISK DR	365-451-05
157	6860 E AVE DE SANTIAGO	365-451-06
157	6860 E AVE DE SANTIAGO	365-451-07
158	6840 E AVE DE SANTIAGO	365-451-08
158	6840 E AVE DE SANTIAGO	365-451-09
159	6820 E AVE DE SANTIAGO	365-451-10
159	6820 E AVE DE SANTIAGO	365-451-11
160	6810 E AVE DE SANTIAGO	365-451-12
160	6810 E AVE DE SANTIAGO	365-451-13

EXHIBIT A
Santiago GHAD - Assessor's Parcel Number

LOT NUMBER	ADDRESS	ASSESSOR'S PARCEL NUMBER
161	6701 E LEAFWOOD DR	368-021-01
162	6705 E LEAFWOOD DR	368-021-02
163	6709 E LEAFWOOD DR	368-021-03
164	6713 E LEAFWOOD DR	368-021-04
165	6717 E LEAFWOOD DR	368-021-05
166	6721 E LEAFWOOD DR	368-021-06
167	6725 E LEAFWOOD DR	368-021-07
168	6729 E LEAFWOOD DR	368-021-08
169	6733 E LEAFWOOD DR	368-021-09
170	6737 E LEAFWOOD DR	368-021-10
171	6741 E LEAFWOOD DR	368-021-11
172	6745 E LEAFWOOD DR	368-021-12
173	6749 E LEAFWOOD DR	368-021-13
174	6753 E LEAFWOOD DR	368-021-14
175	6757 E LEAFWOOD DR	368-021-15
176	6761 E LEAFWOOD DR	368-021-16
177	6765 E LEAFWOOD DR	368-021-17
178	1041 S PINE CANYON CIR	368-022-01
179	1051 S PINE CANYON CIR	368-022-02
180	1061 S PINE CANYON CIR	368-022-03
181	1060 S PINE CANYON CIR	368-022-04
182	1050 S PINE CANYON CIR	368-022-05
183	1040 S PINE CANYON CIR	368-022-06
184	1041 S FALLING LEAF CIR	368-022-07
185	1051 S FALLING LEAF CIR	368-022-08
186	1061 S FALLING LEAF CIR	368-022-09
187	1060 S FALLING LEAF CIR	368-022-10
188	1050 S FALLING LEAF CIR	368-022-11
189	1040 S FALLING LEAF CIR	368-022-12
190	6746 E LEAFWOOD DR	368-022-13
191	6750 E LEAFWOOD DR	368-022-14
192	6754 E LEAFWOOD DR	368-022-15
193	6758 E LEAFWOOD DR	368-022-16
194	6762 E LEAFWOOD DR	368-022-17
195	6768 E LEAFWOOD DR	368-022-18
196	6774 E LEAFWOOD DR	368-022-19
197	6780 E LEAFWOOD DR	368-022-20
198	6786 E LEAFWOOD DR	368-022-21
199	6792 E LEAFWOOD DR	368-022-22
200	6798 E LEAFWOOD DR	368-022-23
201	6799 E LEAFWOOD DR	368-022-24
202	6793 E LEAFWOOD DR	368-022-25
203	6787 E LEAFWOOD DR	368-022-26
204	6781 E LEAFWOOD DR	368-022-27
205	1022 S RIMWOOD DR	368-031-01
206	1026 S RIMWOOD DR	368-031-02
207	1030 S RIMWOOD DR	368-031-03
208	1034 S RIMWOOD DR	368-031-04
209	1038 S RIMWOOD DR	368-031-05
210	1042 S RIMWOOD DR	368-031-06
211	1046 S RIMWOOD DR	368-031-07
212	1050 S RIMWOOD DR	368-031-08
213	1054 S RIMWOOD DR	368-031-09
214	1058 S RIMWOOD DR	368-031-10
215	1062 S RIMWOOD DR	368-031-11
216	1066 S RIMWOOD DR	368-031-12
217	1070 S RIMWOOD DR	368-031-13

EXHIBIT A
Santiago GHAD - Assessor's Parcel Number

LOT NUMBER	ADDRESS	ASSESSOR'S PARCEL NUMBER
218	1074 S RIMWOOD DR	368-031-14
219	1078 S RIMWOOD DR	368-031-15
220	1082 S RIMWOOD DR	368-031-16
221	1086 S RIMWOOD DR	368-031-17
222	1090 S RIMWOOD DR	368-031-18
223	1094 S RIMWOOD DR	368-031-19
224	1098 S RIMWOOD DR	368-031-20
225	1099 S RIMWOOD DR	368-031-21
226	1093 S RIMWOOD DR	368-031-22
227	1087 S RIMWOOD DR	368-031-23
228	1099 S BURLWOOD DR	368-031-24
229	1097 S BURLWOOD DR	368-031-25
230	1095 S BURLWOOD DR	368-031-26
231	1093 S BURLWOOD DR	368-031-27
232	1091 S BURLWOOD DR	368-031-28
233	1089 S BURLWOOD DR	368-031-29
234	1085 S BURLWOOD DR	368-031-30
235	1081 S BURLWOOD DR	368-031-31
236	1077 S BURLWOOD DR	368-031-32
237	1075 S BURLWOOD DR	368-031-33
238	1071 S BURLWOOD DR	368-031-34
239	1063 S BURLWOOD DR	368-031-35
240	1059 S BURLWOOD DR	368-031-36
241	1036 S BURLWOOD DR	368-032-01
242	1040 S BURLWOOD DR	368-032-02
243	1044 S BURLWOOD DR	368-032-03
244	1048 S BURLWOOD DR	368-032-04
245	1052 S BURLWOOD DR	368-032-05
246	1056 S BURLWOOD DR	368-032-06
247	1060 S BURLWOOD DR	368-032-07
248	1064 S BURLWOOD DR	368-032-08
249	1068 S BURLWOOD DR	368-032-09
250	1072 S BURLWOOD DR	368-032-10
251	1076 S BURLWOOD DR	368-032-11
252	1080 S BURLWOOD DR	368-032-12
253	1084 S BURLWOOD DR	368-032-13
254	1088 S BURLWOOD DR	368-032-14
255	1090 S BURLWOOD DR	368-032-15
256	1010 S RIMWOOD DR	368-041-01
257	1014 S RIMWOOD DR	368-041-02
258	1018 S RIMWOOD DR	368-041-03
259	1032 S BURLWOOD DR	368-042-01
260	1028 S BURLWOOD DR	368-042-02
261	1024 S BURLWOOD DR	368-042-03
262	1020 S BURLWOOD DR	368-042-04
263	1016 S BURLWOOD DR	368-042-05
264	1012 S BURLWOOD DR	368-042-06
265	1008 S BURLWOOD DR	368-042-07
266	6608 E LEAFWOOD DR	368-042-08
267	6616 E LEAFWOOD DR	368-042-09
268	6624 E LEAFWOOD DR	368-042-10
269	6632 E LEAFWOOD DR	368-042-11
270	6640 E LEAFWOOD DR	368-042-12
271	6648 E LEAFWOOD DR	368-042-13
272	6656 E LEAFWOOD DR	368-042-14
273	6664 E LEAFWOOD DR	368-042-15
274	6672 E LEAFWOOD DR	368-042-16

EXHIBIT A
Santiago GHAD - Assessor's Parcel Number

LOT NUMBER	ADDRESS	ASSESSOR'S PARCEL NUMBER
275	6680 E LEAFWOOD DR	368-042-17
276	6690 E LEAFWOOD DR	368-042-18
277	6691 E SMOKEWOOD CIR	368-042-19
278	6681 E SMOKEWOOD CIR	368-042-20
279	6661 E SMOKEWOOD CIR	368-042-21
280	6651 E SMOKEWOOD CIR	368-042-22
281	6631 E SMOKEWOOD CIR	368-042-23
282	6621 E SMOKEWOOD CIR	368-042-24
283	6691 E LEAFWOOD DR	368-043-01
284	6683 E LEAFWOOD DR	368-043-02
285	6675 E LEAFWOOD DR	368-043-03
286	6667 E LEAFWOOD DR	368-043-04
287	1024 S ASPENWOOD CIR	368-043-05
288	1018 S ASPENWOOD CIR	368-043-06
289	1012 S ASPENWOOD CIR	368-043-07
290	1006 S ASPENWOOD CIR	368-043-08
291	1000 S ASPENWOOD CIR	368-043-09
292	1001 S ASPENWOOD CIR	368-043-10
293	1007 S ASPENWOOD CIR	368-043-11
294	1015 S ASPENWOOD CIR	368-043-12
295	1021 S ASPENWOOD CIR	368-043-13
296	6639 E LEAFWOOD DR	368-043-14
297	6631 E LEAFWOOD DR	368-043-15
298	6625 E LEAFWOOD DR	368-043-16
299	6623 E LEAFWOOD DR	368-043-17
300	6619 E LEAFWOOD DR	368-043-18
301	6609 E LEAFWOOD DR	368-043-19
302	6601 E LEAFWOOD DR	368-043-20
303	1001 S BURLWOOD DR	368-043-21
304	1003 S BURLWOOD DR	368-043-22
305	1005 S BURLWOOD DR	368-043-23

-	Kentucky Ave (a portion)	-
-	Michigan Circle	-
-	Loyola Drive (a portion)	-
-	Lehigh Drive	-
-	Vassar Circle	-
-	Rutgers Drive (a portion)	-
-	Swarthmore Drive (a portion)	-
-	Serrano Avenue (a portion)	-
-	Williams Circle	-
-	Georgetown Circle	-
-	Leafwood Drive	-
-	Rimwood Drive	-
-	Burlwood Drive	-
-	Aspenwood Circle	-
-	Smokewood Circle	-
-	Pine Canyon Circle	-
-	Falling Leaf Circle	-
-	Avenida De Santiago (a portion)	-
-	Tamarisk Drive	-
-	Private Street	-
-	Via El Estribo	-

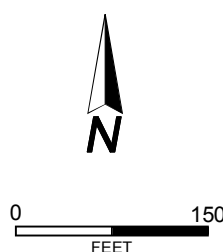
EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- 305 LOT NUMBER
- GHAD BOUNDARY
- LIMIT OF SURFACE DAMAGE - SANTIAGO LANDSLIDE
- PARCEL OUTSIDE OF SURFACE LIMITS, BUT MITIGATION LIKELY IF LANDSLIDE REACTIVATES
- GROUNDWATER RECHARGE AREA

DRAFT

DRAFT



BASE MAP SOURCE: ORANGE COUNTY ASSESSOR'S OFFICE



SITE PLAN
SANTIAGO GEOLOGIC HAZARD ABATEMENT DISTRICT
ANAHEIM, CALIFORNIA

PROJECT NO.: 14174.002.019
SCALE: AS SHOWN
DRAWN BY: GLJ
CHECKED BY: EWH

FIGURE NO.
1

ORIGINAL FIGURE PRINTED IN COLOR